



**CDC® STORAGE MODULE DRIVE
BK5XX**

**DIAGRAMS
WIRE LISTS**

Volume 2 of 2

HARDWARE MAINTENANCE MANUAL

REVISION RECORD

REVISION	DESCRIPTION
01 (09-15-76)	Preliminary manual released.
02 (09-26-76)	Incorporate I/O changes in diagrams.
03 (10-19-76)	Added diagrams applicable to 60 pin I/O and Sector and Index signals on B cable. Also corrected errors.
A (12-15-76)	Manual released including Engineering Change Orders 48092, 48151, 48240B, 48256.
B (05-11-77)	Manual revised including Engineering Change Orders 48437, 48560; Field Change Order 48518. Technical and editorial changes.
C (08-02-77)	Manual revised including Engineering Change Order 48477; Field Change Orders 48477 and 48560. Technical and editorial changes.
D (10-14-77)	Manual revised to include Engineering Change Order 48716. Technical and editorial changes.
E (01-30-78)	Manual revised to include Engineering Change Orders 48941, 48567. Technical and editorial changes.
F (03-28-78)	Technical and editorial changes.
G (06-09-78)	Manual updated to include 55807 (Release BK5A1D), 55112 and 55157. Update also includes technical and editorial changes.
H (10-05-78)	Manual updated with ECOs 55122, 55280, 55248A, and 55325A. Update includes technical and editorial changes.
J (02-02-79)	Manual updated with ECO 55229, 55492A, FCO 55492 plus additional technical and editorial changes.
K (05-23-79)	Manual updated with ECOs 55438, 55663, 55476A, 55682, 55697A, 55743, 55742, 55633A, 55728, 55658, FCO 55422 plus additional technical and editorial changes.

REVISION LETTERS I, O, Q
AND X ARE NOT USED.

©1976, 77, 78, 79, 80, 81, 82, 83
84, 85

By Control Data Corporation
Printed in the United States
of America

Address comments concerning this
manual to:

Control Data Corporation
Twin Cities Disk Division
Customer Documentation Dept.
5950 Clearwater Drive
Minnetonka, Mn. 55343

or use Comment Sheet in the back
of this manual.

REVISION RECORD (Contd)

REVISION	DESCRIPTION
L (08-01-79)	Manual updated with ECOs 55785, 55804, 55821, 55810, plus additional technical and editorial changes.
M (09-19-79)	Manual updated with ECOs 55835, 55854 plus additional technical and editorial changes.
N (11-20-79)	Manual updated with ECOs 55923, 55909, 55839, 55898 plus additional technical and editorial changes.
P (02-06-80)	Manual updated with ECOs 55992, 55956, 55844B, 60031, 60032, plus additional technical and editorial changes.
R (05-20-80)	Manual updated with ECOs 60136, 60137, 60115A plus additional technical and editorial changes.
S (07-09-80)	Manual updated with ECOs 60171, 60169, 60204, 55952A, plus additional technical and editorial changes.
T (12-11-80)	Manual updated with ECOs 60240, 60246, plus additional technical and editorial changes.
U (09-14-81)	Manual updated with ECOs 60448, 60450, 60467, 60453, 60499, DJ00007, DJ00022, DJ00023, DJ00026, FCO 60448, plus additional technical and editorial changes.
V (12-22-81)	Manual updated with ECOs DJ00021, DJ00030, DJ00046, DJ00075, DJ00085, DJ00099, DJ00180, plus additional technical and editorial changes.
W (05-05-82)	Manual updated with ECOs DJ00201, DJ00207, DJ00219, DJ00275, FCO DJ00201, plus additional technical and editorial changes.
Y (06-02-83)	Manual updated with ECOs DJ00436, DJ00228, plus additional technical and editorial changes.
Z (07-25-84)	Manual updated with ECO DJ00399A, plus additional technical and editorial changes.
AA (02-08-85)	Manual update with ECO DJ00771 (class II ECOs DJ00666, 708A, 728A, 734, 735, 761, 785, 788). Technical and editorial changes.

LIST OF EFFECTIVE PAGES

Sheet 1 of 6

New features, as well as changes, deletions, and additions to information in this manual are indicated by bars in the margins or by a dot near the page number if the entire page is affected. A bar by the page number indicates pagination rather than content has changed.

<u>PAGE</u>	<u>REV</u>	<u>PAGE</u>	<u>REV</u>
Cover	-	1-6	P
Blank	-	1-7	P
Title P	-	1-8	P
ii	AA	1-9	G
iii	AA	1-10	J
Blank	-	LD-Div	-
v	AA	Blank	-
vi	AA	1-11	M
vii	AA	1-12	M
viii	Z	1-13	M
ix	Z	Blank	-
x	Z	1-14.1	W
xi	Z	1-14.2	W
xii	Z	1-14.3	W
xiii	AA	Blank	-
xiv	Y	1-15	K
xv	AA	1-16	E
Blank	-	1-17	Z
xvii	AA	1-18	E
xviii	AA	1-19	T
xix	AA	1-20	T
xx	AA	1-20.1	Z
xxi	AA	1-20.2	Z
xxii	AA	1-20.3	Z
xxiii	AA	1-20.4	Z
Blank	-	1-20.5	Z
xxv	AA	Blank	-
xxvi	AA	1-20.7	Z
S-1 Div	-	1-20.8	Z
Blank	-	1-20.9	Z
1-1	H	1-20.10	Z
1-2	A	1-21	K
1-3	G	1-22	Z
1-4	A	1-23	Z
1-5	S	1-24	Z

LIST OF EFFECTIVE PAGES (Contd)

Sheet 2 of 6

<u>PAGE</u>	<u>REV</u>	<u>PAGE</u>	<u>REV</u>
1-25	Y	1-48.1	Z
1-26	A	1-48.2	Z
1-27	H	1-48.3	Z
Blank	-	Blank	-
1-28.1	Y	1-48.5	Z
1-28.2	Y	1-48.6	Z
1-28.3	Y	1-48.7	Z
Blank	-	Blank	-
1-28.5	AA	1-49	U
1-28.6	G	1-50	T
1-28.7	AA	1-51	T
Blank	-	1-52	T
1-29	Y	1-52.1	Z
1-30	Y	1-52.2	Z
1-31	Y	1-52.3	Z
1-32	Y	1-52.4	Z
1-33	Y	1-52.5	AA
Blank	-	1-52.6	AA
1-35	Z	1-52.7	Z
1-36	Y	1-52.8	AA
1-37	Y	1-52.9	AA
Blank	-	Blank	-
1-38.1	AA	1-52.11	Z
1-38.2	Z	1-52.12	Z
1-38.3	AA	1-52.13	Z
Blank	-	1-52.14	Z
1-39	Y	1-52.15	Z
1-40	C	1-52.16	Z
1-41	T	1-52.17	Z
1-42	A	1-52.18	Z
1-43	C	1-53	U
Blank	-	1-54	T
1-44.1	Y	1-55	T
1-44.2	Y	1-56	T
1-44.3	Y	1-56.1	T
1-44.4	Y	Blank	-
1-44.5	Y	1-56.3	Z
Blank	-	1-56.4	Z
1-45	Z	1-56.5	Z
1-46	T	1-56.6	Z
1-47	T	Blank	-
Blank	-	1-57	W

LIST OF EFFECTIVE PAGES (Contd)

Sheet 3 of 6

<u>PAGE</u>	<u>REV</u>	<u>PAGE</u>	<u>REV</u>
1-58	W	1-97	Z
1-59	T	1-98	Z
Blank	-	1-99	Z
1-61	W	1-100	Z
1-62	W	1-100.1	Z
1-63	A	1-100.2	Z
Blank	-	1-100.3	Z
1-65	W	1-100.4	Z
1-66	W	1-101	Z
1-67	A	1-102	Z
Blank	-	1-103	Z
1-69	Z	1-104	Z
1-70	A	1-105	Z
1-71	A	1-106	T
1-72	Z	1-107	A
1-73	K	1-108	T
1-74	A	1-109	Z
1-75	A	1-110	Z
1-76	A	1-111	AA
1-77	Z	1-112	U
1-78	W	1-113	AA
1-79	Z	1-114	AA
Blank	-	1-114.1	V
1-81	W	1-114.2	P
1-82	W	1-114.3	P
1-83	T	1-114.4	P
Blank	-	1-114.5	AA
1-85	Y	1-114.6	AA
1-86	Y	1-114.7	AA
1-87	A	1-114.8	AA
Blank	-	1-115	AA
1-89	Z	1-116	AA
1-90	A	1-117	Y
1-91	A	1-118	AA
1-92	Z	1-119	Y
1-93	K	Blank	-
1-94	A	1-121	AA
1-95	A	1-122	AA
1-96	A	1-123	U
1-96.1	Z	1-124	U
1-96.2	Z	1-125	U
1-96.3	Z	1-126	U
1-96.4	Z		

LIST OF EFFECTIVE PAGES (Contd)

Sheet 4 of 6

<u>PAGE</u>	<u>REV</u>	<u>PAGE</u>	<u>REV</u>
1-127	U	1-163	A
Blank	-	Blank	-
1-128.1	Z	1-165	K
1-128.2	Z	1-166	A
1-128.3	Z	1-167	A
1-128.4	Z	Blank	-
1-129	K	1-168.1	P
1-130	G	1-168.2	P
1-131	G	1-168.3	P
Blank	-	Blank	-
1-133	P	1-169	Y
1-134	P	1-170	Y
1-135	K	1-170.1	Z
1-136	A	1-170.2	Z
1-137	K	1-171	Y
1-138	A	1-172	A
1-139	P	1-173	C
1-140	P	Blank	-
1-141	K	1-174.1	AA
1-142	A	1-174.2	Y
1-143	K	1-174.3	AA
1-144	A	Blank	-
1-145	K	1-175	S
1-146	A	1-176	S
1-147	A	1-177	S
Blank	-	Blank	-
1-149	K	1-179	Y
1-150	A	1-180	L
1-151	A	1-180.1	Y
Blank	-	Blank	-
1-153	K	1-181	AA
1-154	A	1-182	AA
1-155	A	1-183	Y
Blank	-	1-184	S
1-156.1	P	1-184.1	V
1-156.2	P	Blank	-
1-156.3	P	1-184.3	Z
Blank	-	1-184.4	Z
1-157	K	1-185	K
1-158	A	1-186	K
1-159	A	1-186.1	Z
Blank	-	1-186.2	Z
1-161	K	1-187	Z
1-162	A		

LIST OF EFFECTIVE PAGES (Contd)

Sheet 5 of 6

<u>PAGE</u>	<u>REV</u>	<u>PAGE</u>	<u>REV</u>
1-188	J	2-15	C
1-188.1	Y	2-16	A
1-188.2	Y	2-17	A
1-188.3	Y	2-18	M
Blank	-	2-19	M
1-188.5	Z	2-20	C
1-188.6	Y	2-21	A
1-188.7	Y	2-22	A
Blank	-	2-23	A
1-189	Z	2-24	M
1-190	J	2-25	A
1-191	J	2-26	A
Blank	-	2-27	A
1-193	L	2-28	A
1-194	J	50 P-Div	-
1-194.1	J	Blank	-
Blank	-	2-29	W
1-195	S	2-30	A
1-196	C	2-31	A
1-196.1	Z	2-32	A
1-196.2	Z	2-33	A
1-196.3	Z	2-34	W
1-196.4	Z	2-35	A
S-2 Div	-	2-36	A
Blank	-	2-37	A
2-1	A	2-38	A
2-2	S	2-39	C
60 P-Div	-	2-40	A
Blank	-	2-41	A
2-3	W	2-42	A
2-4	A	2-43	A
2-5	A	2-44	C
2-6	A	2-45	A
2-7	M	2-46	A
2-8	A	2-47	A
2-9	W	2-48	A
2-10	A	IS-Div	-
2-11	A	Blank	-
2-12	A	2-49	W
2-13	A	2-50	A
2-14	A	2-51	A

LIST OF EFFECTIVE PAGES (Contd)

Sheet 6 of 6

<u>PAGE</u>	<u>REV</u>	<u>PAGE</u>	<u>REV</u>
2-52	A	2-73	Z
2-53	A	2-74	W
2-54	W	2-75	P
2-55	A	2-76	P
2-56	A	2-77	P
2-57	A	2-78	P
2-58	A	2-79	P
2-59	C	2-80	P
2-60	A	2-81	P
2-61	A	2-82	P
2-62	A	2-83	P
2-63	A	2-84	Z
2-64	C	2-85	Z
2-65	A	2-86	P
2-66	A	2-87	P
2-67	A	2-88	P
2-68	A	2-89	P
S&IOABC-Div	-	Blank	-
Blank	-	Cmt Sht	-
2-69	Z	Rtn Env	-
2-70	P	Blank	-
2-71	P	Cover	-
2-72	P		

PREFACE

This manual contains maintenance information applicable to the BK5XX Storage Module Drives (SMDs) listed in the configuration charts (found following the table of content). The configuration charts define each of the equipments covered by this manual in terms of cabinet mounting styles, cabinet colors, and the various electronic features provided. Since this manual covers all of the various configurations available on the SMD, it is necessary to understand exactly which configuration you have in order to know which procedures in this manual are applicable to your drive.

This manual provides the logic and wiring information relating to the SMDs. The manual assumes that the reader is already trained in the use of normal mechanical and electric repair equipment. In addition, the manual assumes that the reader has a working knowledge of the use and interpretation of logic.

Information in this manual is divided into two sections:

Section 1 - Diagrams

Section 2 - Wire Lists

Other manuals, also applicable to the SMDs covered in this manual, are as follows, and are available from Control Data Literature Distribution Services, 308 North Dale Street, St. Paul MN 55103.

Publication No.	Title
83322150*	Hardware Maintenance Manual Volume 1 - Installation and Checkout, Maintenance, Parts Data.
83322200*	Hardware Reference Manual - General Description, Operation, Theory of Operation, Discrete Component Circuits.

Publication No.

Title

83322440 CDC Microcircuits Volume I, Functional
Descriptions of Integrated Circuits.

83324440 CDC Microcircuits Volume II, Functional
Descriptions of Integrated Circuits.

83323770 A Guide for the Disk Drive Operator

*Note: The following manuals are unique to the BK5A9J:

83322960 Hardware Maintenance Manual Volume I -
Installation and Checkout, Maintenance,
Parts Data.

83322980 Hardware Reference Manual - General
Description, Operation, Theory of Oper-
ation, Discrete Components Circuits.

CONTENTS

Important Safety Information and Precautions	xv
Configuration Chart	xvii
Abbreviations	xxv
1. DIAGRAMS	
Introduction	1-1
Diagram Conventions	1-1
Symbology	1-1
Qualifying Symbol	1-1
Element Identifier	1-2
Physical Location Code	1-2
Abbreviations	1-2
Logic Levels	1-2
Signal Names	1-2
Intersheet References	1-2
Diagram Cover Sheets	1-4
Physical Description	1-5
Logic Diagram Sets	1-11
2. WIRE LISTS	
Introduction	1-2
Reading Wire Lists	2-1
Signal Name or Number Identification	2-1
Origin/Destination	2-1
Z Level	2-2
Notes	2-2
60 Pin I/O Wire List	2-3
50 Pin I/O Wire List	2-29
Index and Sector in B Cable Wire List	2-49

FIGURES

1-1	Electronic Component Assembly	1-1
1-2	Intersheet Referencing	1-3
1-3	Physical Location Codes	1-8
1-4	Backpanel Layout	1-9
1-5	Chassis Map	1-10
2-1	Example of Logic Wirewrap List	2-1
2-2	Z Levels	2-2

TABLES

1-1	Logic Voltage Levels	1-2
1-2	Physical Location Codes	1-6

IMPORTANT SAFETY INFORMATION AND PRECAUTIONS

Proper safety and repair is important to the safe, reliable operation of this unit. Service should be done by qualified personnel only. This maintenance manual describes procedures recommended by the manufacturer as effective methods of servicing the unit. Some of these procedures require the use of specially designed tools. For proper maintenance and safety, these specially designed tools should be used as recommended.

The procedures in this maintenance manual and labels on the unit contain warnings and cautions which must be carefully read and observed in order to minimize or eliminate the risk of personal injury. The warnings point out conditions or practices that are potentially hazardous to maintenance personnel. The cautions point out practices which, if disregarded, could damage the unit and make it unsafe for use.

For the safety of maintenance and operating personnel, the following precautions must be observed:

- Perform all maintenance in accordance with the procedures given in this manual.
- Read and observe all cautions and warnings provided in the procedures and labeled on the unit.
- Use the special tools called out in the maintenance procedure.
- Observe sound safety practices when performing maintenance.
- Use caution when troubleshooting a unit that has voltages present. Remove power from unit before servicing or replacing components.
- Wear safety glasses when servicing units.
- Wear safety shoes when removing or replacing heavy components.

It is also important to understand that these warnings and cautions are not exhaustive. The manufacturer could not possibly know, evaluate and advise maintenance personnel of all conceivable ways in which maintenance might be performed or the possible risk of each maintenance technique. Consequently, the manufacturer has not completed any such broad evaluation. Thus, any persons who use any non-approved maintenance procedure or tool must first satisfy themselves that neither their safety nor the unit performance will be jeopardized by the maintenance techniques they select.

CONFIGURATION CHART

EQUIP	TLA	POWER		DATA CAP (MB)	CH	A CABLE CONFIG	CLR ⁴ CODE	CAB MTG STYLE
		V	HZ					
BK5A1A	47173002	120	60	80	S	60-pin ¹	A	30-in rk
BK5A1B	47173003	220/ 240	50	80	S	60-pin ¹	A	30-in rk
BK5A1D	47173085	220/ 240	50	80	S	60-pin	AH	30-in rk
BK5A1E	47292521	120	60	80	S	S&IOBC	AX	30-in rk
BK5A1F	47292522	220/ 240	50	80	S	S&IOBC	AX	30-in rk
BK5A1G	47292542	120	60	80	S	60-pin ¹	BG	uni cab
BK5A1H	47292543	220	50	80	S	60-pin ¹	BG	uni cab
BK5A1J	47292597	120	60	80	S	S&IOBC	CE	30-in rk
BK5A1K	47292551	240	50	80	S	60-pin	BB	30-in rk
BK5A1L	47292598	220	50	80	S	S&IOBC	CE	30-in rk
BK5A1M	47292573	220	50	80	S	60-pin ¹	A	30-in rk
BK5A1N	82398035	220	50	80	S	S&IOABC	CY	30-in rk
BK5A1P	82398041	220	50	80	S	S&IOABC	DG	30-in rk
BK5A2A	47173004	120	60	80	D	60-pin ¹	A	30-in rk
BK5A2B	47173005	220/ 240	50	80	D	60-pin ¹	A	30-in rk
BK5A3A	47173006	120	60	80	S	60-pin ¹	B	30-in rk
BK5A3B	47173007	220/ 240	50	80	S	60-pin ¹	B	30-in rk
BK5A3C	47292519	120	60	80	S	60-pin	AR	36-in rk
BK5A3D	47292520	220/ 240	50	80	S	60-pin	AR	36-in rk
BK5A3E	82398023	120	60	80	S	S&IOABC	CT	36-in rk
BK5A3F	48292544	220	50	80	S	60-pin	B	36-in rk
BK5A3G	82398026	220	50	80	S	S&IOABC	CT	36-in rk
BK5A3H	47292561	220	50	80	S	60-pin ¹	B	36-in rk
BK5A3J	82398042	220	50	80	S	S&IOABC	DH	36-in rk
BK5A3K	47292579	220	50	80	S	60-pin	BP	36-in rk
BK5A3M	47292593	220	50	80	S	S&IOABC	CA	36-in rk
BK5A3N	82398045	120	60	80	S	S&IOABC	DL	36-in rk
BK5A3P	82398046	220	50	80	S	S&IOABC	DL	36-in rk
BK5A4A	47173008	120	60	80	D	60-pin ¹	B	36-in rk
BK5A4B	47173009	220/ 240	50	80	D	60-pin ¹	B	36-in rk

Table Continued on Next Page

CONFIGURATION CHART (Contd)

EQUIP	TLA	POWER		DATA CAP (MB)	CH	A CABLE CONFIG	CLR ⁴ CODE	CAB MTG STYLE
		V	HZ					
BK5A5A	47173016	120	60	80	S	60-pin ¹	C	ped cab
BK5A5B	47173017	220/ 240	50	80	S	60-pin ¹	C	ped cab
BK5A5C	47173048	120	60	80	S	60-pin	J	ped cab
BK5A5D	47173049	220	50	80	S	60-pin	J	ped cab
BK5A5E	47173068	120	60	80	S	60-pin	AE	ped cab
BK5A5F	47173074	120	60	80	S	60-pin	V	ped cab
BK5A5G	47173075	220/ 240	50	80	S	60-pin	V	ped cab
BK5A5H	47173076	120	60	80	S	S&IOBC	W	ped cab
BK5A5J	47173088	120	60	80	S	60-pin	AJ	ped cab
BK5A5K	47173089	220/ 240	50	80	S	60-pin	AJ	ped cab
BK5A5L	47173090	120	60	80	S	75-pin	DA ³	ped cab
BK5A5M	47173091	220/ 240	50	80	S	75-pin	DA ³	ped cab
BK5A5N	47292504	120	60	80	S	S&IOBC	AK	ped cab
BK5A5P	47292505	220/ 240	50	80	S	S&IOBC	AK	ped cab
BK5A5R	47292536	120	60	80	S	60-pin	AW	ped cab
BK5A5S	47292537	220/ 240	50	80	S	60-pin	AW	ped cab
BK5A5T	47292538	120	60	80	S	60-pin	DA ³	ped cab
BK5A5U	47292539	220	50	80	S	60-pin	DA ³	ped cab
BK5A5V	47292540	120	60	80	S	60-pin	AY	ped cab
BK5A5W	47292541	220	50	80	S	60-pin	AY	ped cab
BK5A5Y	47292545	120	60	80	S	60-pin	AZ	ped cab
BK5A5Z	47292552	220	50	80	S	60-pin	BC	ped cab
BK5A6A	47173018	120	60	80	D	60-pin ¹	C	ped cab
BK5A6B	47173019	220/ 240	50	80	D	60-pin ¹	C	ped cab
BK5A6E	47292547	120	60	80	D	S&IOBC	BA	ped cab
BK5A6F	47292548	220	50	80	D	S&IOBC	BA	ped cab

Table Continued on Next Page

CONFIGURATION CHART (Contd)

EQUIP	TLA	POWER		DATA CAP (MB)	CH	A CABLE CONFIG	CLR ⁴ CODE	CAB MTG STYLE
		V	HZ					
BK5A6G	47292555	120	60	80	D	S&IOABC	CV ³	ped cab
BK5A6H	47292556	220	50	80	D	S&IOABC	CV ³	ped cab
BK5A7A	47173020	120	60	80	S	60-pin ¹	D	acst drw
BK5A7B	47173021	220/ 240	50	80	S	60-pin ¹	E	acst drw
BK5A7G	47173080	120	60	80	S	60-pin	AC	acst drw
BK5A7H	47173078	220/ 240	50	80	S	60-pin	AA	acst drw
BK5A7J	47292513	120	60	80	S	60-pin	BS ³	acst drw
BK5A7K	47292514	220/ 240	50	80	S	60-pin	BS ³	acst drw
BK5A7L	47292525	120	60	80	S	60-pin	AU	acst drw
BK5A7M	47292526	220/ 240	50	80	S	60-pin	AV	acst drw
BK5A7N	47292529	120	60	80	S	60-pin	BS ³	acst drw
BK5A7P	47292530	220/ 240	50	80	S	60-pin	BS ³	acst drw
BK5A7R	47292557	120	60	80	S	S&IOBC	BD	acst drw
BK5A7S	47292558	220	50	80	S	S&IOBC	BD	acst drw
BK5A7T	47292594	220	50	80	S	S&IOABC	CB	acst drw
BK5A7U	47292562	220	50	80	S	60-pin ¹	E	acst drw
BK5A7V	47292565	120	60	80	S	S&IOABC	BK	acst drw
BK5A7W	47292566	240	50	80	S	S&IOABC	BL	acst drw
BK5A7Y	47292574	120	60	80	S	60-pin	BK ³	acst drw
BK5A7Z	47292575	220	50	80	S	60-pin	BL ³	acst drw
BK5A8A	47173022	120	60	80	D	60-pin ¹	D	acst drw
BK5A8B	47173023	220/ 240	50	80	D	60-pin ¹	E	acst drw
BK5A8H	82398005	220	50	80	D	S&IOABC	CJ ³	acst drw
BK5A9A	47173024	120	60	80	S	60-pin ¹	F	acst cab
BK5A9B	47173025	220/ 240	50	80	S	60-pin ¹	G	acst cab
Table Continued on Next Page								

CONFIGURATION CHART (Contd)

EQUIP	TLA	POWER		DATA CAP (MB)	CH	A CABLE CONFIG	CLR ⁴ CODE	CAB MTG STYLE
		V	HZ					
BK5A9G	47173066	120	60	80	S	60-pin	X	acst cab
BK5A9H	47173067	220/ 240	50	80	S	60-pin	Y	acst cab
BK5A9J	47173069	220/ 240	50	80	S	60-pin	³	acst cab
BK5A9K	47173077	220/ 240	50	80	S	60-pin	AB	acst cab
BK5A9L	47173081	120	60	80	S	60-pin	AD	acst cab
BK5A9M	47292516	220/ 240	50	80	S	60-pin	BU ³	acst cab
BK5A9N	47292510	120	60	80	S	60-pin	AL	acst cab
BK5A9P	47292515	120	60	80	S	60-pin	BT ³	acst cab
BK5A9R	47292517	120	60	80	S	60-pin	AN	acst cab
BK5A9S	47292518	220/ 240	50	80	S	60-pin	AP	acst cab
BK5A9T	47292523	120	60	80	S	60-pin	AS	acst cab
BK5A9U	47292524	220/ 240	50	80	S	60-pin	AT	acst cab
BK5A9V	47292527	120	60	80	A	60-pin	BT ³	acst cab
BK5A9W	47292528	220/ 240	50	80	S	60-pin	BU ³	acst cab
BK5A9Z	47292564	220	50	80	S	60-pin ¹	G	acst cab
BK5B1A	47173026	120	60	80	D	60-pin ¹	F	acst cab
BK5B1B	47173027	220/ 240	50	80	D	60-pin ¹	G	acst cab
BK5B1G	82398027	220	50	80	D	S&IOABC	CW	acst cab
BK5B1H	82398004	220	50	80	D	S&IOBC	CK ³	acst cab
BK5B5J	47173082	120	60	80	S	60-pin	AF	acst cab
BK5B5K	47173083	220/ 240	50	80	S	60-pin	AG	acst cab
BK5B5L	47292549	120	60	80	S	S&IOBC	BA	ped cab
BK5B5M	47292550	220	50	80	S	S&IOBC	BA	ped cab
BK5B5N	47292553	120	60	80	S	S&IOABC	CV ³	ped cab
BK5B5P	47292554	220	50	80	S	S&IOABC	CV ³	ped cab
BK5B5R	82398034	220	50	80	S	S&IOABC	CZ	ped cab
BK5B5S	47292563	220	50	80	S	60-pin ¹	C	ped cab
Table Continued on Next Page								

CONFIGURATION CHART (Contd)

EQUIP	TLA	POWER		DATA CAP (MB)	CH	A CABLE CONFIG	CLR ⁴ CODE	CAB MTG STYLE
		V	HZ					
BK5B5T	47292572	100	60	80	S	S&IOBC	AK	ped cab
BK5B5U	47292571	100	50	80	S	S&IOBC	AK	ped cab
BK5B5W	47292581	220	50	80	S	60-pin	C	ped cab
BK5B5Y	47292591	120	60	80	S	60-pin ¹	CD	ped cab
BK5B5Z	47292592	220/ 240	50	80	S	60-pin ¹	CD	ped cab
BK5B6A	47173036	120	60	80	D	S&IOBC	H	ped cab
BK5B6B	47173037	220/ 240	50	80	D	S&IOBC	H	ped cab
BK5B6C	47173038	120	60	80	S	S&IOBC	H	ped cab
BK5B6D	47173039	220/ 240	50	80	S	S&IOBC	H	ped cab
BK5B7A	47173040	120	60	80	D	50-pin	C	ped cab
BK5B7B	47173041	220/ 240	50	80	D	50-pin	C	ped cab
BK5B7C	47173042	120	60	80	S	50-pin	C	ped cab
BK5B7D	47173043	220/ 240	50	80	S	50-pin	C	ped cab
BK5B8C	47173046	120	60	80	S	S&IOBC	K	ped cab
BK5B8D	47173047	220/ 240	50	80	S	S&IOBC	K	ped cab
BK5B9A	47173010	120	60	80	S	60-pin	L	ped cab
BK5B9B	47173011	220/ 240	50	80	S	60-pin	L	ped cab
BK5B9C	47173012	120	60	80	S	60-pin	M	acst cab
BK5B9D	47173013	220/ 240	50	80	S	60-pin	M	acst cab
BK5B9E	47173014	120	60	80	S	60-pin	N	acst drw
BK5B9F	47173015	220/ 240	50	80	S	60-pin	R	acst drw
BK5B9G	82398008	100	60	80	S	60-pin	C	ped cab
BK5B9H	82398009	100	50	80	S	60-pin	C	ped cab
BK5B9J	47173070	120	60	80	S	60-pin	S	acst cab
BK5B9K	47173071	220/ 240	50	80	S	60-pin	Z	acst cab
BK5B9L	47173072	120	60	80	S	60-pin	T	acst drw
BK5B9M	47173073	220/ 240	50	80	S	60-pin	U	acst drw

Table Continued on Next Page

CONFIGURATION CHART (Contd)

EQUIP	TLA	POWER		DATA CAP (MB)	CH	A CABLE CONFIG	CLR ⁴ CODE	CAB MTG STYLE
		V	HZ					
BK5B9N	82398006	120	60	80	S	60-pin	CG	ped cab
BK5B9P	82398036	120	60	80	S	S&IOAC	DF	ped cab
BK5B9R	82398019	120	60	80	S	S&IOABC	CL	ped cab
BK5B9S	82398020	220	50	80	S	S&IOABC	CL	ped cab
BK5B9T	82398017	120	60	80	S	S&IOABC	CM	ped cab
BK5B9U	82398018	220	50	80	S	S&IOABC	CM	ped cab
BK5B9V	82398021	120	60	80	S	S&IOABC	CS	ped cab
BK5B9W	82398022	220	50	80	S	S&IOABC	CS	ped cab
BK5B9Y	82398024	120	60	80	S	S&IOABC	CU	ped cab
BK5B9Z	82398025	220	50	80	S	S&IOABC	CU	ped cab
BK5C1E	47173092	120	60	80	S	60-pin	-	basic
BK5C1F	47173093	220/ 240	50	80	S	60-pin	-	basic
BK5C1G	47292535	120	60	80	S	60-pin	-	basic
BK5C1H	47292599	220	50	80	S	60-pin	CF	Nude
BK5C1J	47292585	100	50	80	S	60-pin	-	basic
BK5C1K	47292586	100	60	80	S	60-pin	-	basic
BK5C2A	47173050	120	60	80	S	60-pin	P	nude
BK5C2B	47173051	220/ 240	50	80	S	60-pin	P	nude
BK5C3A	47292511	120	60	80	S	60-pin ¹	AM	desk
BK5C3B	47292512	220/ 240	50	80	S	60-pin ¹	AM	desk
BK5C4A	47292559	120	60	80	S	S&IOBC	BE	acst cab
BK5C4B	47292560	220	50	80	S	S&IOBC	BF	acst cab
BK5C4C	47292567	120	60	80	S	S&IOABC	BH	acst cab
BK5C4D	47292568	220	50	80	S	S&IOABC	BJ	acst cab
BK5C4E	47292569	120	60	80	S	60-pin	BM	acst cab
BK5C4F	47292570	220	50	80	S	60-pin	BN	acst cab
BK5C4G	47292576	120	60	80	S	60-pin	BH ³	acst cab
BK5C4H	47292577	220	50	80	S	60-pin	BJ ³	acst cab
BK5C4K	47292578	220	50	80	S	60-pin	BR	acst cab
BK5C4M	47292580	220	50	80	S	60-pin	BV	acst cab
BK5C4N	82398037	220	50	80	S	S&IOABC	DC	acst cab
BK5C4P	47292582	220	50	80	S	60-pin	BW	acst cab
BK5C4R	47292583	120	60	80	S	S&IOBC	BX	acst cab
BK5C4S	47292584	220	50	80	S	S&IOABC	BY	acst cab

Table Continued on Next Page

CONFIGURATION CHART (Contd)

EQUIP	TLA	POWER		DATA CAP (MB)	CH	A CABLE CONFIG	CLR ⁴ CODE	CAB MTG STYLE
		V	HZ					
BK5C4T	82398044	220	50	80	S	S&IOABC	DJ	acst cab
BK5C4U	82398002	220	50	80	S	S&IOABC	CK ³	acst cab
BK5C4W	82398007	120	60	80	S	60-pin	CH	acst cab
BK5C4Y	82398010	100	60	80	S	60-pin	F	acst cab
BK5C4Z	82398011	100	50	80	S	60-pin	G	acst cab
BK5C5A	47292595	120	60	80	S	60-pin ¹	CC	acst drw
BK5C5B	47292596	220	50	80	S	60-pin	CC	acst drw
BK5C5D	82398003	220	50	80	S	S&IOABC	CJ ³	acst drw
BK5C5F	82398043	220	50	80	S	S&IOABC	DK	acst drw
BK5C6A	82398012	120	60	80	S	S&IOABC	CN	acst cab
BK5C6B	82398013	220	50	80	S	S&IOABC	CP	acst cab
BK5C6C	82398016	120	60	80	S	S&IOABC	CR	acst cab
⁵ BK5C6D	81528302	220	50	80	S	S&IOABC	DN	acst cab
BK5C6E	82398038	220	50	80	S	S&IOABC	DD	acst drw
BK5C7A	82398039	120	60	80	S	S&IOAC	DE	ped cab
BK5C7B	82398040	220	50	80	S	S&IOAC	DB	ped cab
BK5C7C	82398047	120	60	80	S	S&IOAC	DM	acst cab
BK5C7D	82398048	220	50	80	S	S&IOAC	DM	acst cab
<div> ¹ Units built after S/C 34 have Index and Sector on A and B Cables. ² Units built after S/C 24 have Pack Interlocks. ³ Units have Special Supplement. ⁴ SEE TABLE 3-1 COLOR CODE CHART in HM, Vol 1 ⁵ VDE Unit </div>								

ABBREVIATIONS

ABR	Absolute Reserve	FIG	Figure
ABV	Above	FLT	Fault
ADDR	Address	FREQ	Frequency
ADRS	Address	FTU	Field Test Unit
AGC	Automatic Gain Control	FWD	Forward
AM	Address Mark	GND	Ground
AMPL	Amplifier	HD	Head
BLK	Black	I/O	Input-Output
BLW	Below	INTLK	Interlock
CAR	Cylinder Address	LD	Load
	Register	MAINT	Maintenance
CH	Channel	MAX	Maximum
CHAN	Channel	MB	Megabyte
CNTLGL	Centrifugal	MFM	Modified Frequency
CNTR	Counter		Modulation
COMP	Compensation	MK	Mark
CONFIG	Configuration	MUTL	Multiple
CONT	Continued	NC	No Connection
CR REF	Cross Reference	NFR	Not Field Replaceable
CYL	Cylinder	NEG	Negative
D/A	Digital To Analog	NO	Number
DCCR	Decoder	NOM	Nominal
DIFF	Difference	NORM	Normal
DLY	Delay	NRM	Normal
DRVR	Driver	NRZ	Nonreturn To Zero
DSBL	Disable	PC PT	Piece Part
ECL	Emitter Coupled Logic	PLO	Phase Lock Oscillator
ECO	Engineering Change	PN	Part Number
	Order	POS	Positive
EMER	Emergency	PWR	Power
EN	Enable	RCVRS	Receivers
EOT	End Of Travel	RD	Read
EQUIP	Equipment	RDY	Ready
EQUIV	Equivalent	REC	Receiver
FCO	Field Change Order	REF	Reference
FF	Flip Flop	REG	Register

ABBREVIATIONS (Contd)

REV	Reverse	TBS	To Be Supplied
RGTR	Register	TLA	Top Level Assembly
RTM	Reserve Timer	TP	Test Point
RTZ	Return To Zero	TRK	Track
S&IOABC	Sector and Index On A & B Cable	TTL	Transistor Transistor Logic
S&IOBC	Sector and Index On B Cable	UNREG	Unregulated
S/C	Series Code	VCO	Voltage Controlled Oscillataor
SEC	Second	W+R	Write Or Read
SEL	Select	W·R	Write and Read
SEQ	Sequence	W/	With
SER	Servo	W/O	Without
SH	Sheet	WRT	Write
SOL	Solenoid	WT	White
SR	Servo	XDUCER	Transducer
SW	Switch	XMTR	Transmitter
T	Track		

SECTION 1

DIAGRAMS

DIAGRAMS

INTRODUCTION

Section 1 is divided into three discussions: diagram conventions, physical descriptions, and diagrams. The discussion on diagram conventions describes the elements included in the logic, and how to use the logic. The discussion on physical description identifies the functional elements on the drive, and references them to the appropriate diagrams. The logic diagrams show how the drive functions.

DIAGRAM CONVENTIONS

The conventions used in the logic diagrams are:

- Symbolology
- Abbreviations
- Logic Levels
- Signal Names

- Intersheet References
- Diagram Cover Sheets

An explanation of each of the above is included in the following paragraphs.

SYMBOLOLOGY

The diagrams contain standard schematic symbolology and logic symbolology. Logic symbolology, as identified in this manual, refers to integrated circuits and discrete circuits. Typically, all logic symbols contain two or three lines of information (see figure 1-1). All logic symbols have a qualifying symbol and an element identifier. Only integrated circuits have a physical location symbol.

QUALIFYING SYMBOL

The first line of any logic symbol will contain a qualifying symbol. The qualifying

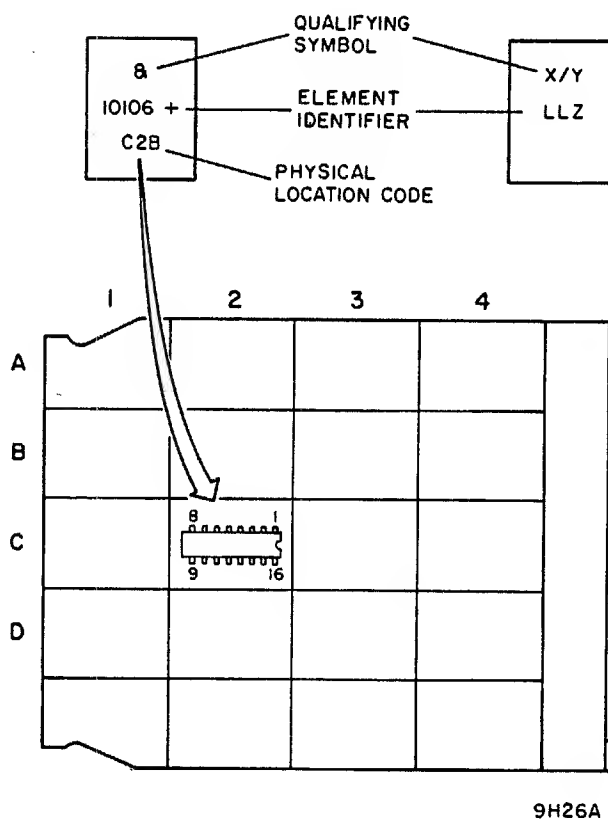


Figure 1-1. Electronic Component Assembly Layout

symbol determines the function of the circuit. Refer to Key To Logic in the reference manual for a detailed list, and explanation of the qualifying symbols used in the diagrams.

Element Identifier

The second line of any logic symbol contains the element identifier. The element Identifier defines the type of circuit involved. Integrated circuits are identified by a series of numbers (example: 175). This series of numbers may have a letter or series of letters following (example: 175H). A detailed description of all integrated circuits used can be found in the microcircuits manual. Discrete circuits are identified by three letters in a series (example: LZJ). Refer to the reference manual for a detailed explanation of particular discrete circuits.

Physical Location Code

The third line, which pertains only to integrated circuits, contains the physical location code. The physical location code is in the form of either a two digit code or a three digit code. The first two digits indicate the location of the chip in relation to its position on the card. The location of the chip can be found as follows: with the component side of the card up and the card connector to the right, form an imaginary grid on the card. Divide the card into five equal rows (using horizontal lines), and four equal columns (using vertical lines). Label the five rows A through E on the left hand side of the card, and number the columns 1 through 4 on the top of the card. To find a chip location, intersect the rows and the columns. For example, to find A1 on a card, locate the imaginary row on the left side of the card, and go across to the right on the card until row A intersects with column 1. Chip A1 is at the point of intersection. If one additional character exists (example: A1B), that character represents the section of the chip used. The B on the end of the example given represents section B of the chip at location A1. To find out where section B is on the chip, refer to the chip description in the microcircuits manual.

ABBREVIATIONS

Abbreviations are used in the logic diagrams when it is impractical or impossible to use complete nomenclature on logic diagrams. Standard abbreviations from ANSI Y1.1 were used when possible. Refer to the list of abbreviations included in the front matter for definitions of all abbreviations used in the manual.

LOGIC LEVELS

Two types of logic are used in the drives covered by this manual: TTL logic, and ECL logic. Logic voltage levels for both types are given in the table 1-1. Different circuit configurations, temperatures, and so on may result in legitimate readings that fall outside of the typical range. Such readings, however, should be suspect only in the event of trouble.

SIGNAL NAMES

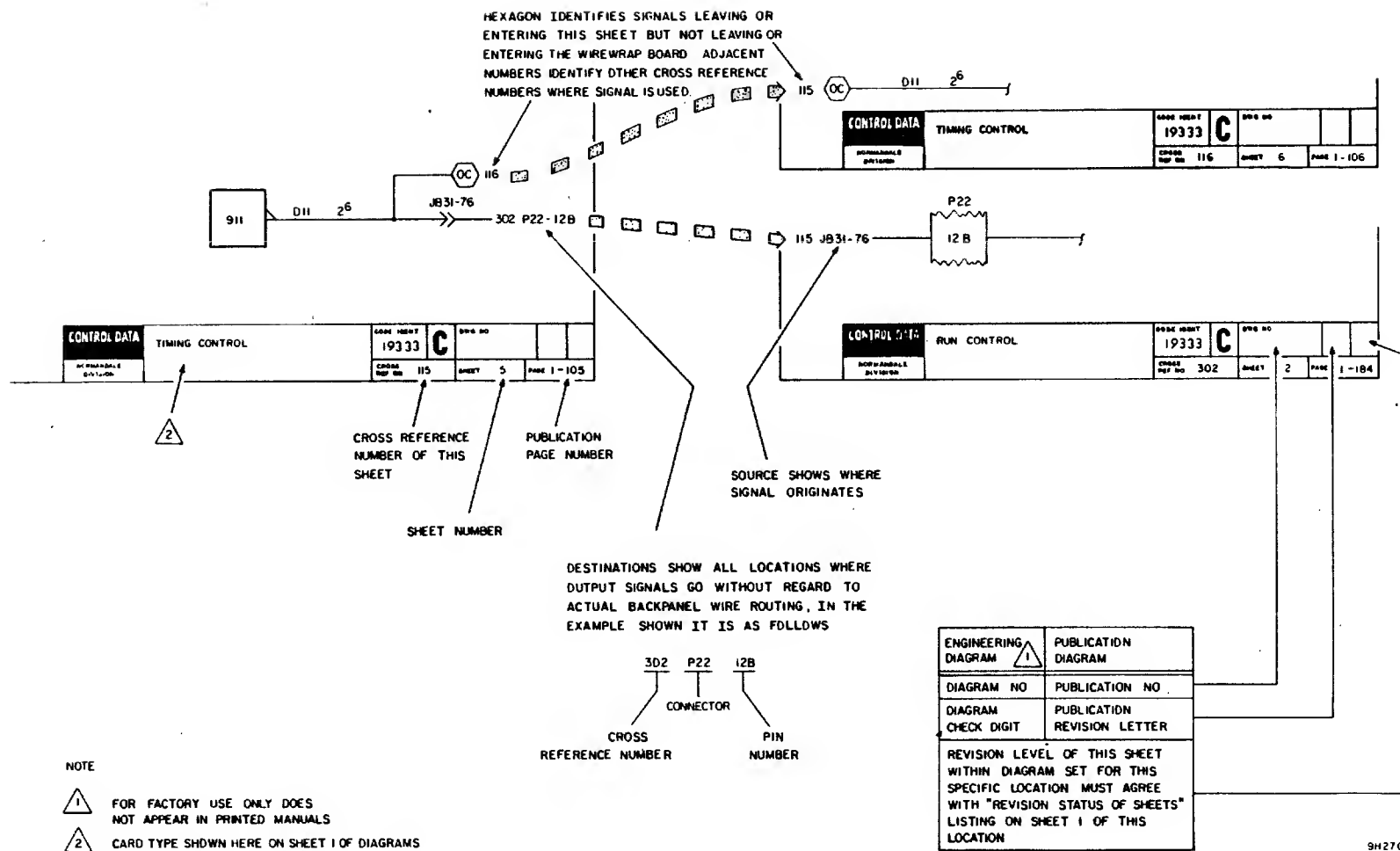
All input-output signals are labeled to reflect their particular function. If an output signal has no connection, and therefore no function, it will be labeled "NC" to indicate no connection. The polarity of a signal is identified by a plus or minus sign before the signal name. A plus sign before a signal name indicates that the signal is active when the logic level is high, or in a logical 1's state. A minus sign before a signal name indicates that the signal is active when the logic level is low, or in a logical 0's state. Refer to the discussion on logic levels.

INTERSHEET REFERENCES

There are 34 sets of logic in the diagrams. The key to understanding how each set relates to another is in identifying three basic components. Each set contains cross-reference numbers, physical location codes, and pin numbers (see figure 1-2). The cross-reference number is a three digit, two part number. The first part (first two digits) indicates which set is being referenced. The second part (third digit) indicates which page of the set is being referenced. For example, in reference number 131, the first two digits indicate that set 13 is

TABLE 1-1. LOGIC VOLTAGE LEVELS

Logical State	Nominal Voltage	Typical Range
TTL "1"	+3 V	+2.5 V to +4.0 V *
TTL "0"	0 V	0 V to +0.9 V
ECL "1"	-0.9 V	-0.61 V to -0.97 V
ECL "0"	-1.8 V	-1.52 V to -2.38 V
* Measuring a TTL open collector voltage may result in a reading that is close to the actual power supply voltage.		



9H27C

Figure 1-2. Intersheet Referencing

being referenced. The third digit indicates that page 1 of set 13 is being referenced. Since the logic is used with more than one drive configuration (example: 50 pin or 60 pin I/O), it is possible to have identical cross-reference numbers on two or more logic sets. In cases where a reference number is used on more than one logic set, each sheet of each applicable logic set will be labeled with the appropriate drive configuration. Cross-reference numbers are also used within the logic, so that logic can be traced from one logic set to another. A cross-reference number on the output of a logic signal indicates that the logical sequence continues in the logic set identified by the cross-reference number. Typically, other identifying information, such as the physical location code, or the pin number will follow the cross-reference number on the logic. A cross-reference number on the input of a signal indicates the origin of the signal. Where a logic signal does not leave the logic, but is continued on some other sheet of the same set, the cross-reference number of the destination sheet will be shown. In such cases, the cross-reference number will be preceded by a hexagon. The hexagon will be identified with a letter to indicate a specific location on the destination sheet. Where a logical sequence cannot be shown in series and it does not leave the logic sheet, "line of sight" arrows are used to indicate the origin and destination of the sequence. The end of a logical sequence will be shown with a line of sight arrow pointing away from a small circle identified with a letter. A second circle, identified with the same letter, will have a line of sight arrow pointing in the same direction as the first. The second arrow indicates where the logical sequence continues.

The physical location code is an alpha-numerical code, such as A2A05, that identifies the relationship between the logic sets and their location on the drive. All physical location codes are represented in the logic. However, several miscellaneous codes that do not warrant their own logic set are shown in a related logic set. For example, A3L2 (shown on cross-reference sheet 072) is not shown in the A3 logic set. A3L2 is shown with A2 logic, since A2 is more closely related. Refer to the table and figure on physical location codes to locate particular physical location codes.

The pin numbers used in the logic are for identifying logic signals at their respective input-output locations. Pin numbers are identified by a three character number, such as 14A. The tagging information on all input-output signals should reflect a reference number, a physical location code, and a pin number, respectively.

Logic set 34X contains the cabling information for all inter-chassis logic signals on logic sets 01X through 33X. Inter-chassis connections are designated by a small square identified with a location code, such as A3. An inter-chassis designator used at the output of a logic signal indicates that the signal leaves the assembly shown, and continues on the assembly indicated by the indicator. An inter-chassis designator at the input of the logic signal indicates that the signal originated on the assembly shown by the designator. When it becomes necessary to view the cabling in its entirety, refer to logic set 34X. Logic set 34X shows only the various cables and connectors as used in the drive. All logic chassis backpanel wiring is shown in the wirelist.

DIAGRAM COVER SHEETS

The diagram cover sheet is the first sheet of a logic set. Power and ground connections, revision status, card type information, and a list of unused circuit elements are found on the cover sheet. Power enters the drive from the Drive Power Plug (Pl on reference sheet 302), is rectified (refer to reference sheets 31X, 32X, and 33X), and then distributed to the backpanel fastons. The backpanel then distributes power to the logic cards. The cover sheets show which pins receive that power. All power connections show the point of origin for the power source except those that are most common. The most common power connections are:

- -20V faston, which feeds pin 2B on cards A01-A09
- +20V faston, which feeds pin 33B on cards A01-A09
- -5V faston, which feeds pin 1B on all cards
- +5V faston, which feeds pin 34B on all cards
- GND faston, which feeds pins 1A and 34A on all cards

The revision of each logic sheet within the logic set is shown in the upper left-hand corner of the cover sheet. The upper right-hand corner of the sheet contains a record of the changes made to the logic set. The latest revision letter shown in the revision record should always match the letter of the cover sheet.

The cover sheet also shows the card type which appears in the title block below the card name. Refer to figure 1-2 for an explanation of all pertinent information shown in the title block.

PHYSICAL DESCRIPTION

The physical arrangement of the drive is described on figures 1-3 through 1-5, and table 1-2. Figure 1-3 separates the drive into three sections. Each section and its assemblies and components have been assigned a physical location code. All physical location codes shown on figure 1-3 are listed in

table 1-2. Table 1-2 identifies the physical location code by title, and refers to the logic set in which the code is shown. The drive backpanel is shown on figure 1-4. The view shown is the wired side of the backpanel. The relative position of the backpanel, and all other card assemblies in the drive, is shown on the chassis (see figure 1-5).

TABLE 1-2. PHYSICAL LOCATION CODES

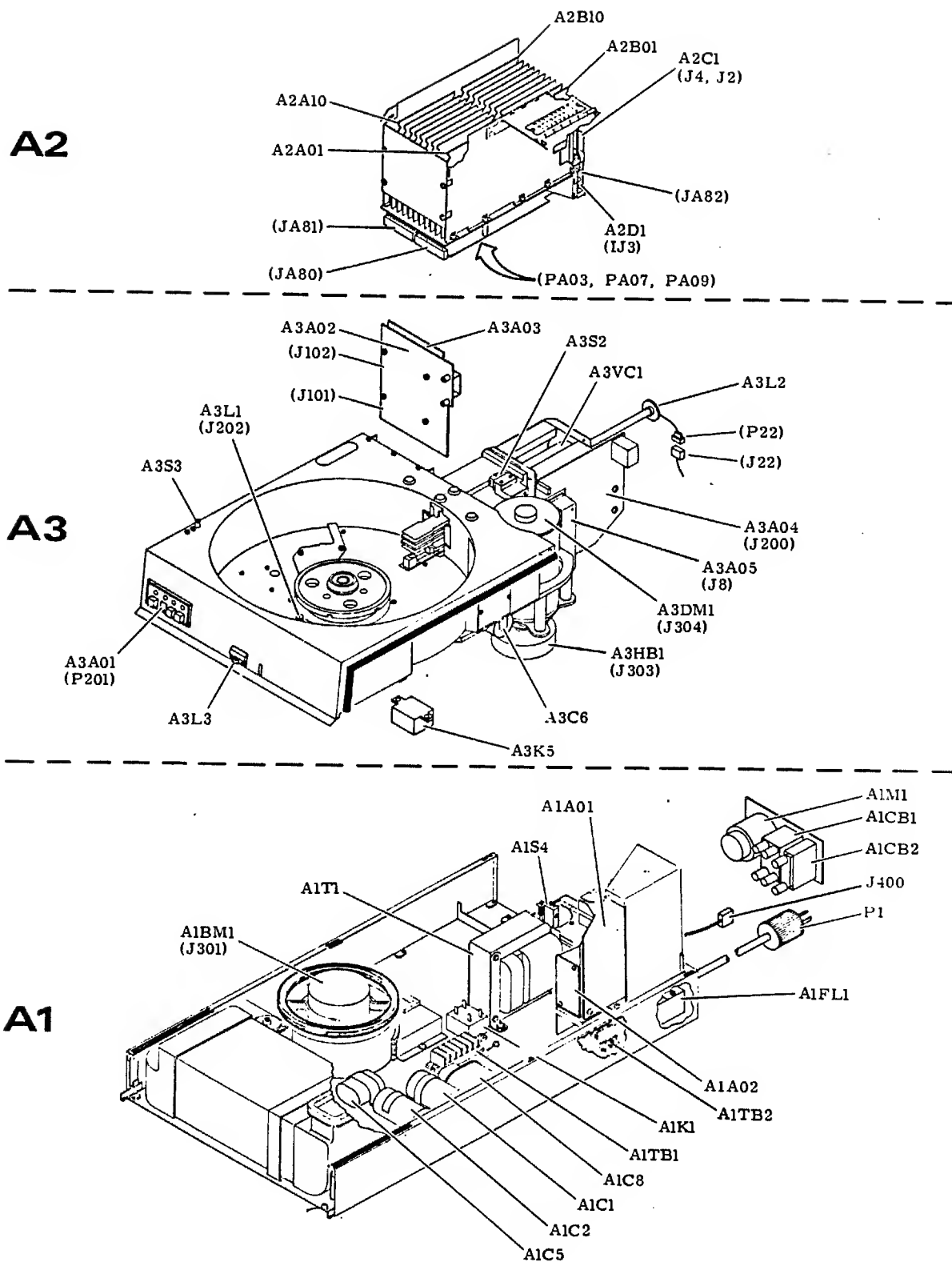
PHYSICAL LOCATION CODE	TITLE	CROSS REFERENCE NUMBERS
A1	Base Assembly (AC Power System)	302
A1A01	Plus and Minus 42V Supply and Emergency Retract	31X
A1A02	Plus and Minus, Plus and Minus 12V Supplies	32X
A1A03	Plus and Minus 5V Supply	33X
A1BM1	Blower Motor	302
A1C1	Servo Capacitor (+)	312
A1C2	Servo Capacitor (-)	312
A1C5	Blower Motor Start Capacitor	302
A1C8	Transformer Tuning Capacitor	302
A1CB1	AC Power Circuit Breaker	302
A1CB2	Power Supply Circuit Breaker	302
A1FL1	Line Filter	302
A1K1	Run Triac	302
A1K2	Emergency Retract Relay	312
A1M1	Elapsed Time Meter	302
A1S4	Deck Interlock Switch	302
A1T1	AC Power Transformer	302
A1TB1	Terminal Board	302
A1TB2	Terminal Board (50 Hz S/C 31 & abv) (60 Hz S/C 34 & abv)	302
A1J1A	Power Supply Connector	31X-33X
A1J1B	Power Supply Connector	31X-33X
A1J100	Power Supply Connector	31X-33X
A1J400	Fan Connector (Acoustic Top Mount Only)	302
A1P1	AC Power Connector	302
A2	Logic Chassis	--
Table continued on next page		

TABLE 1-2. PHYSICAL LOCATION CODES (Contd)

PHYSICAL LOCATION CODE	TITLE	CROSS REFERENCE NUMBERS
A2A01	Write Clock (806 KHZ)	01X
A2A02	FTU/Head Alignment Card Slot	02X
A2A03	Fine Servo Decoder	03X
A2A04	Fault Card	04X
A2A05	Data Latch	05X
A2A06	Read PLO	06X
A2A07	D/A Function Generator	07X
A2A08	Access Control NO 2	08X
A2A09	Switching Mode Enable	09X
A2A10	Interlocks and Speed Controls	10X
A2B01	Channel I Transmitters and Receivers Head Address Register	11X
A2B02	Channel I Receivers	12X
A2B03	Channel II Transmitters and Receivers	13X
A2B04	Channel II Receivers	14X
A2B05	Dual Channel Steering	15X
A2B06	Difference Generator and Controls	16X
A2B07	NRZ to Compensated MFM	17X
A2B08	Access Control and Index/Sector Decode	18X
A2B09	Access Control NO 1	19X
A2B10	Dual Channel Interrupt and Channel I	20X
A2C1	Channel I Terminator	21X
A2C2	Channel II Terminator	22X
A2D1	Channel I I/O	23X
A2D2	Channel II I/O	24X
A3	Deck Assembly	--
A3A01	Control Panel	25X
A3A02	Head Select and Read Amplifier	26X
A3A03	Writer	27X
Table continued on next page		

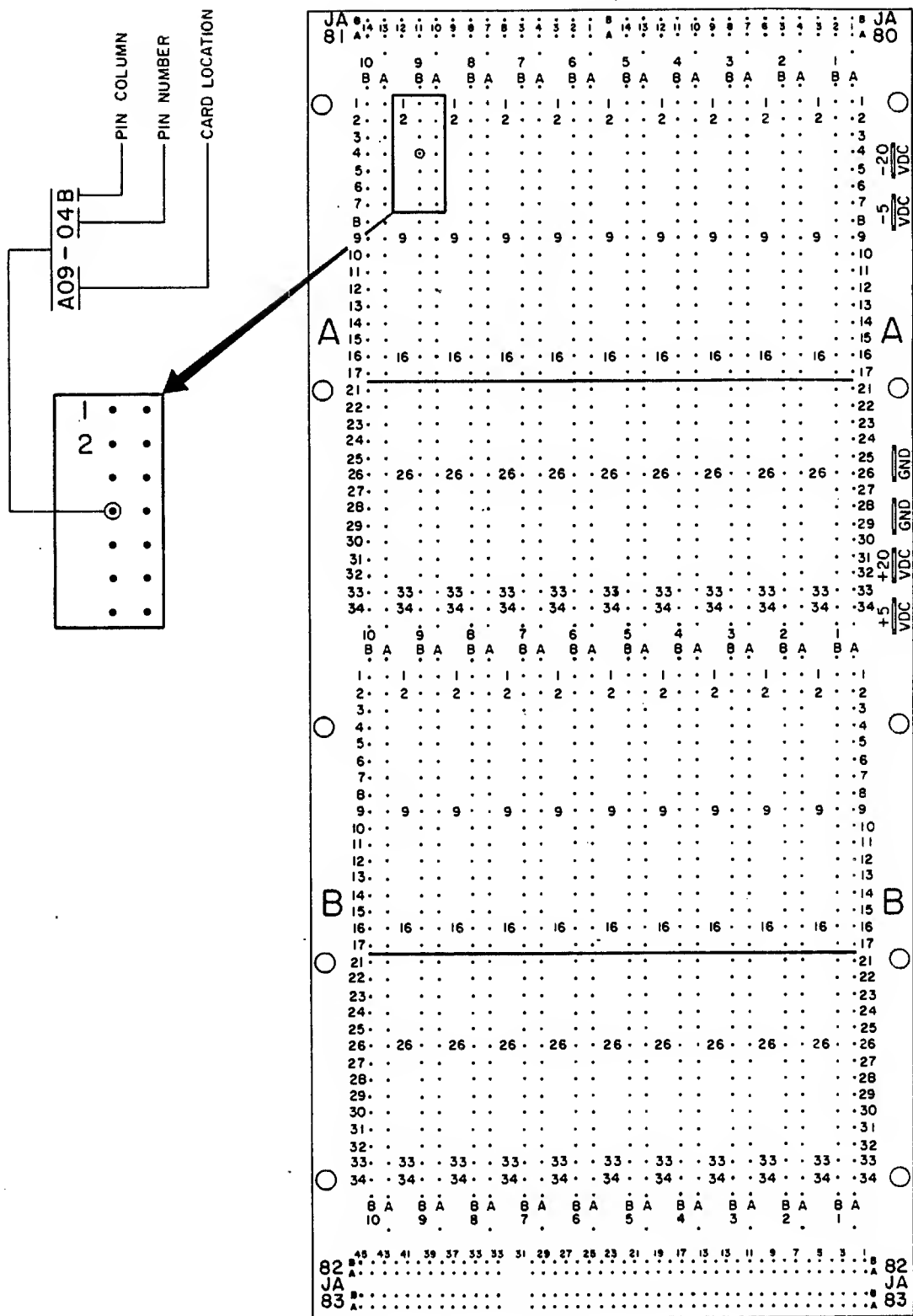
TABLE 1-2. PHYSICAL LOCATION CODES (Contd)

PHYSICAL LOCATION CODE	TITLE	CROSS REFERENCE NUMBERS
A3A04	Power Amplifier	28X
A3A05	Track Servo Preamplifier	29X
A3C6	Drive Motor Capacitor	302
A3DM1	Drive Motor	302
A3HB1	Hysteresis Brake	302
A3K5	Start Triac	302
A3L1	Speed Transducer	103
A3L2	Velocity Transducer	072
A3L3	Pack Cover Solenoid (Optional)	102
A3S2	Heads Loaded Switch	302
A3S3	Pack Cover Switch	252
A3VC1	Voice Coil	312



9H14E

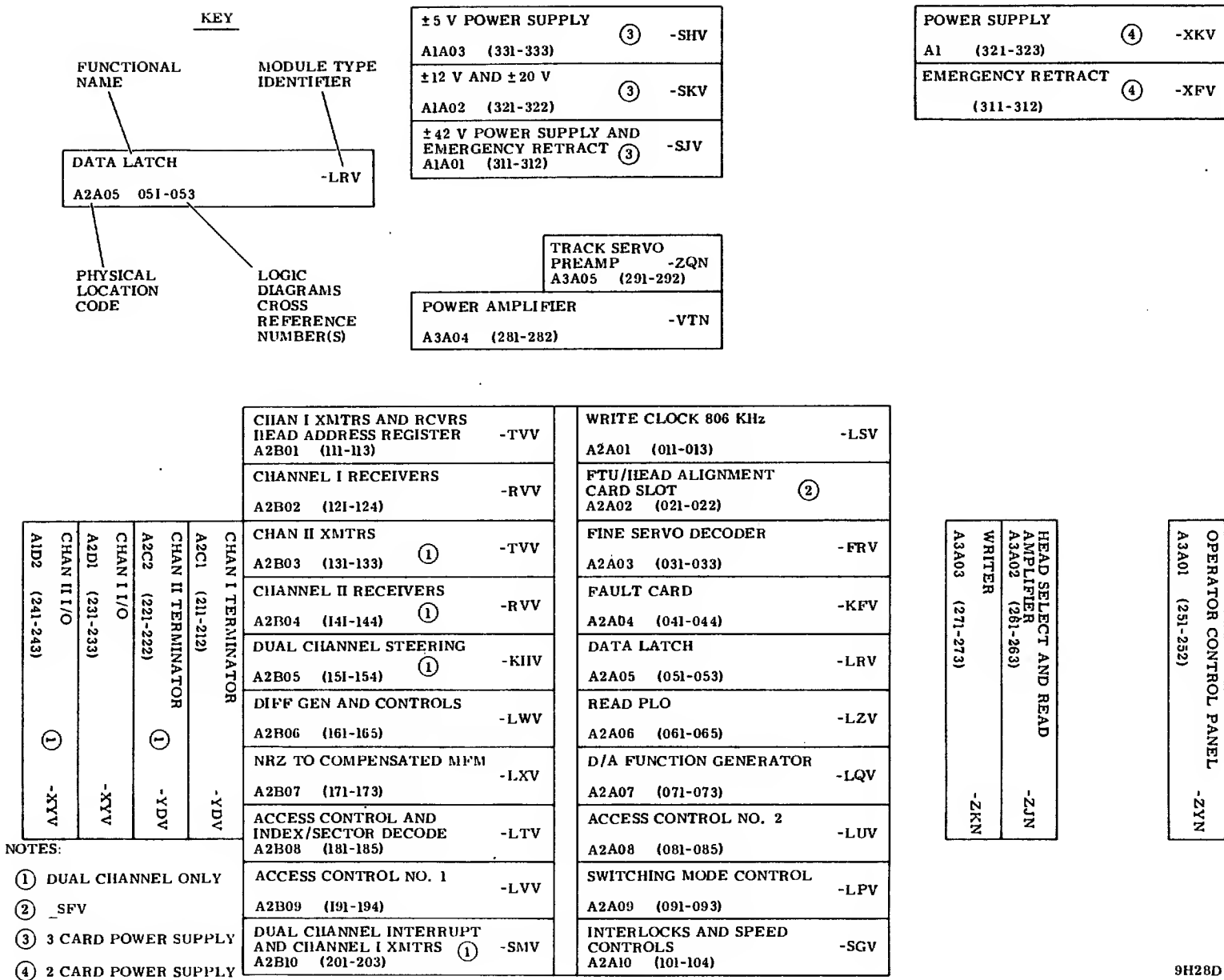
Figure 1-3. Physical Location Codes



9H294

VIEWS FROM WIREWRAP SIDE

Figure 1-4. Backpanel Layout



9H28D

Figure 1-5. Chassis Map

LOGIC DIAGRAM SETS

REVISION STATUS OF SHEETS

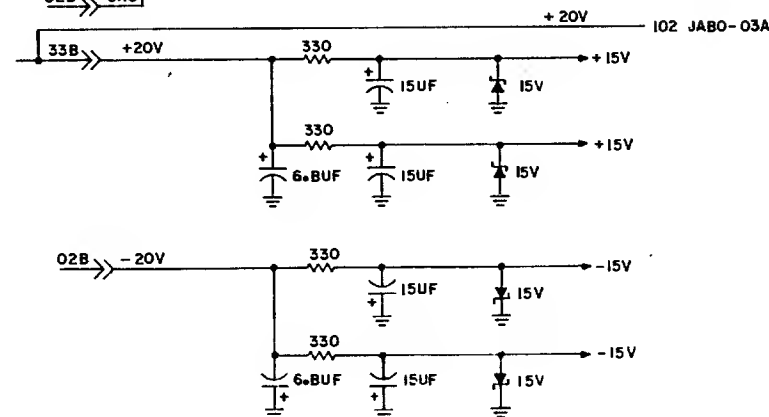
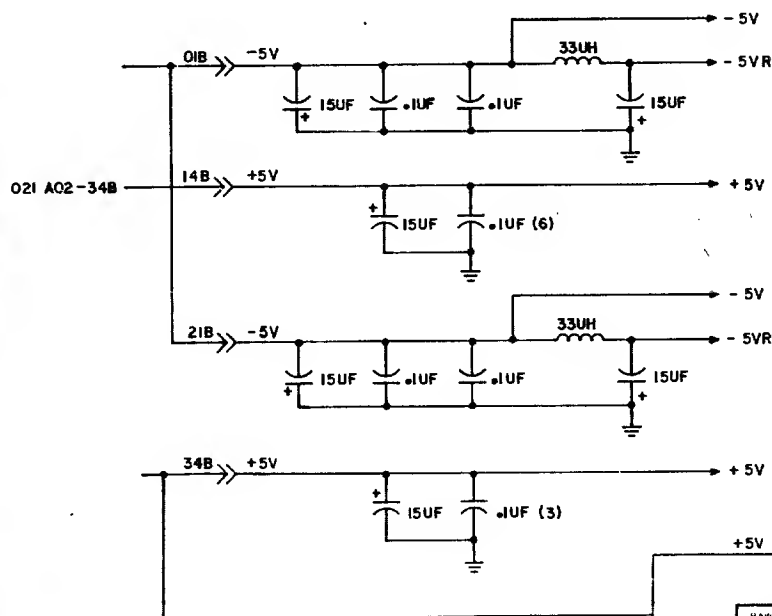
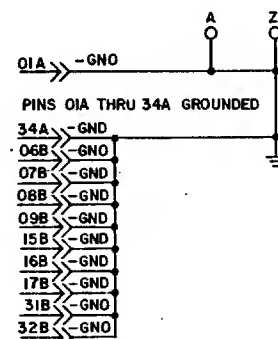
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A	A	A	A																	
B	B	B	B																	
C	C	C	B																	
D	C	D																		
E	E	D																		
F	E	F																		
G	G	F																		

UNUSED LOGIC ELEMENTS

TYPE	LOCATION	OUTPUT PIN (S)
10131	C2	14,15
10131	02	14,15
10116	B1	6,7,14,15
10116	D1	2,3,6,7
10125	D3	4,13
10125	B2	4
140H	04	6

REVISIONS

REV	ECO	DESCRIPTION	DRFT	DATE	CHK'D
A	PE48402	RE PLACED	MLA		
B	PE48402	CORRECT DIAGRAMS	WEB	12-16-76	
C	PE48402	IMPROVE TIMING MARGIN	GR	5-10-77	
D	PE48523	ERROR CORRECTION	GR	5-10-77	
E	PE48555	IMPROVE TIMING MARGIN	GR	5-10-77	
F	PE48673	IMPROVE CLSV CARD	DM	1-25-78	
G		LABEL TEST POINTS	A.A.O.	6-14-78	



USED ON REV C AND BELOW

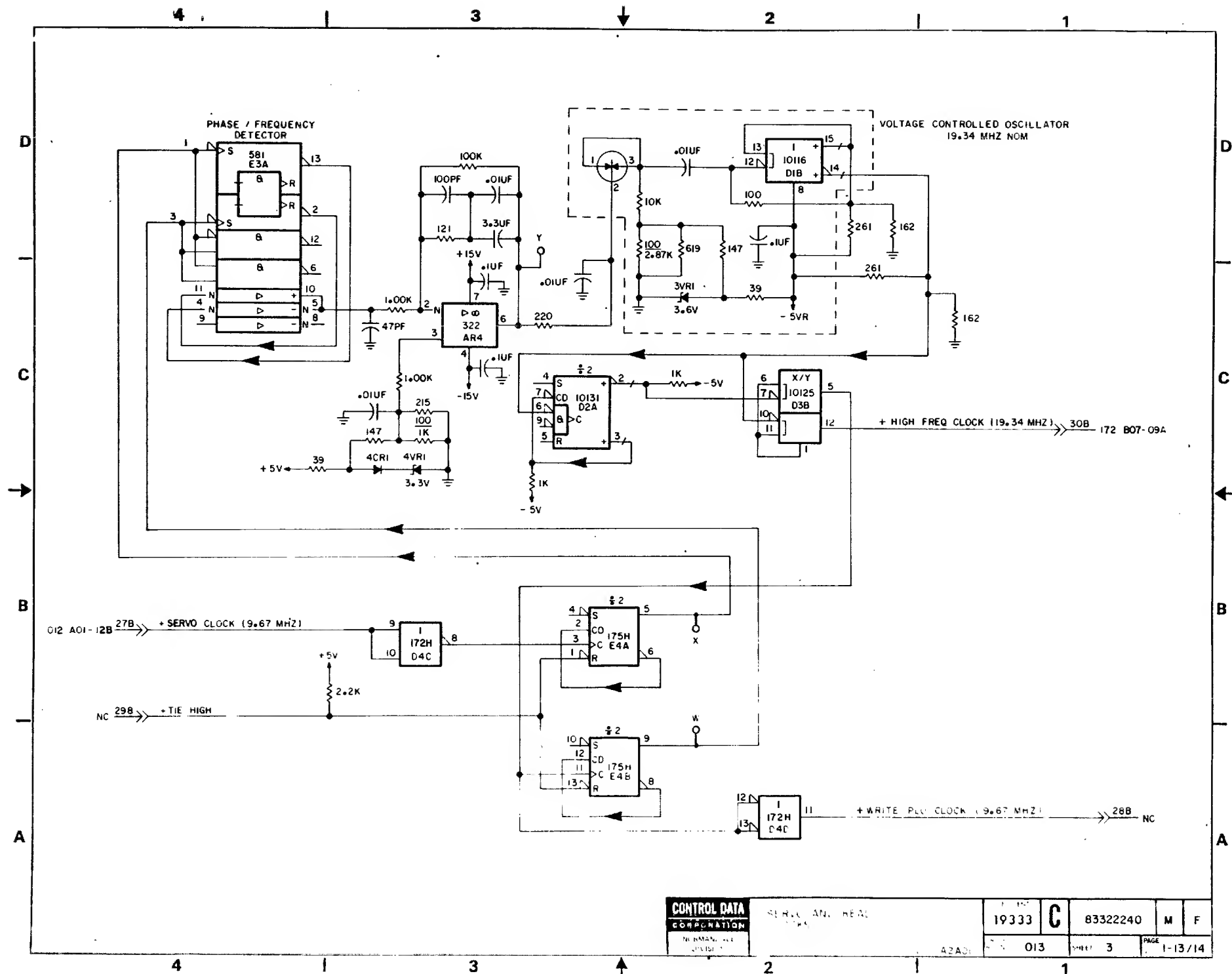
DESIGN	G. KABINE
CHECKED	
ENGINEER	
DATE	

CONTROL DATA
MINIANDALE
DIVISION

WRITE CLOCK 808 KHZ
TO 9.67 MHZ
DIAGRAMS

TYPE CLSV

19333	C	83322240	M	G
011	3	1-11		



CONTROL DATA
COMPANION

SERVO AND READ

19333

C

83322240

M

F

013

3

PAGE 1-13/14

REVISION STATUS OF SHEETS

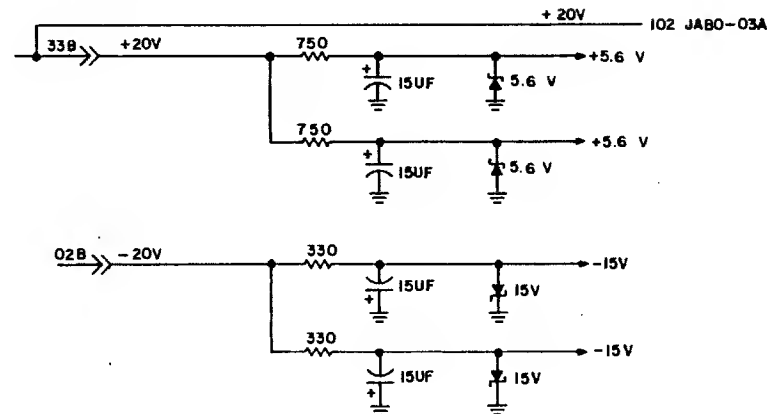
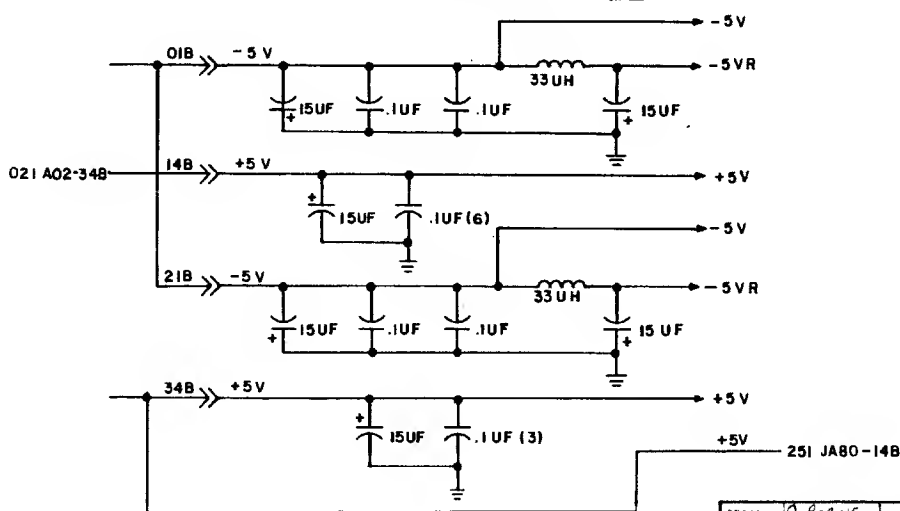
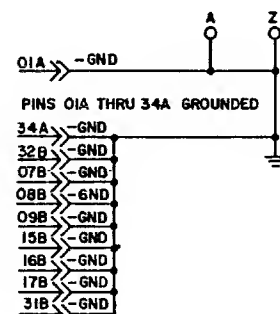
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A	A	A	A																	
B	B	B	B																	
C	C	C	B																	
D	D	D	D																	
E	E	E	E																	
F	F	F	F																	
G	G	G	G																	
H	H	H	G																	
J	H	J																		
K	K	K	K																	
L	L	L	L																	
M	M	M	M																	
N	M	M	M																	
P	M	M	M																	
R	R	R	R																	
S	S	S	R																	
T	T	T	T																	
U	T	U																		
V	V	U																		
W	V	W																		

UNUSED LOGIC ELEMENTS

TYPE	LOCATION	OUTPUT PIN (S)
10131	C2	14,15
10131	D2	14,15
10116	B1	6,7,14,15
10116	D1	2,3,6,7
10125	D3	4,13
10125	B2	4

REVISIONS

REV	ECO	DESCRIPTION	DRFT	DATE	CHK'D
A	1-30-76	RELEASE	MLA	1-30-76	
B	PE48402	ERROR CORRECTIONS	VB	1-3-77	
C	PE48461	IMPROVE TIMING MARGIN	SB	2-28-77	
D	PE48523	ERROR CORRECTION	SB	4-6-77	
E	PE48555	MISSING IM	MA	4-29-77	
F	PE48650	CLSV CARD CHANGE	MA	7-7-77	
G	PE48675	ERROR CORRECTION	MA	7-7-77	
H	PE55185	CHANGE DELAY	MA	4-4-78	
J	PE55370	ERROR CORRECTION	A.A.O.	8-10-78	
K	PE55754	IMPROVE BIAS RANGE	MA	4-10-79	
L	PE55724	OSC BIAS CKTS IMP	MA	4-12-79	
M	PE55885	RETURN CONFIG	TN	8-13-79	
N	PE57278	ADD WIRE INFO TO LOGIC	MF	11-4-80	
P	PE60081	DELETE CAPACITORS	MF	11-4-80	
R	PE60090	CHG RES AND DIODES	MF	11-4-80	
S	PE60290	REDESIGN HF RV	MF	11-4-80	
T	PE60332	CHG TEST RESISTORS	MJ	11-11-82	
U	DJ00087	ADD NOTE TO CIR	MJ	5-12-82	
V	DJ00201	PLO CLOCK ERROR	MJ	5-12-82	
W	DJ00213	CHG CLSV CTR	MJ	5-12-82	



USED ON REV D AND ABOVE

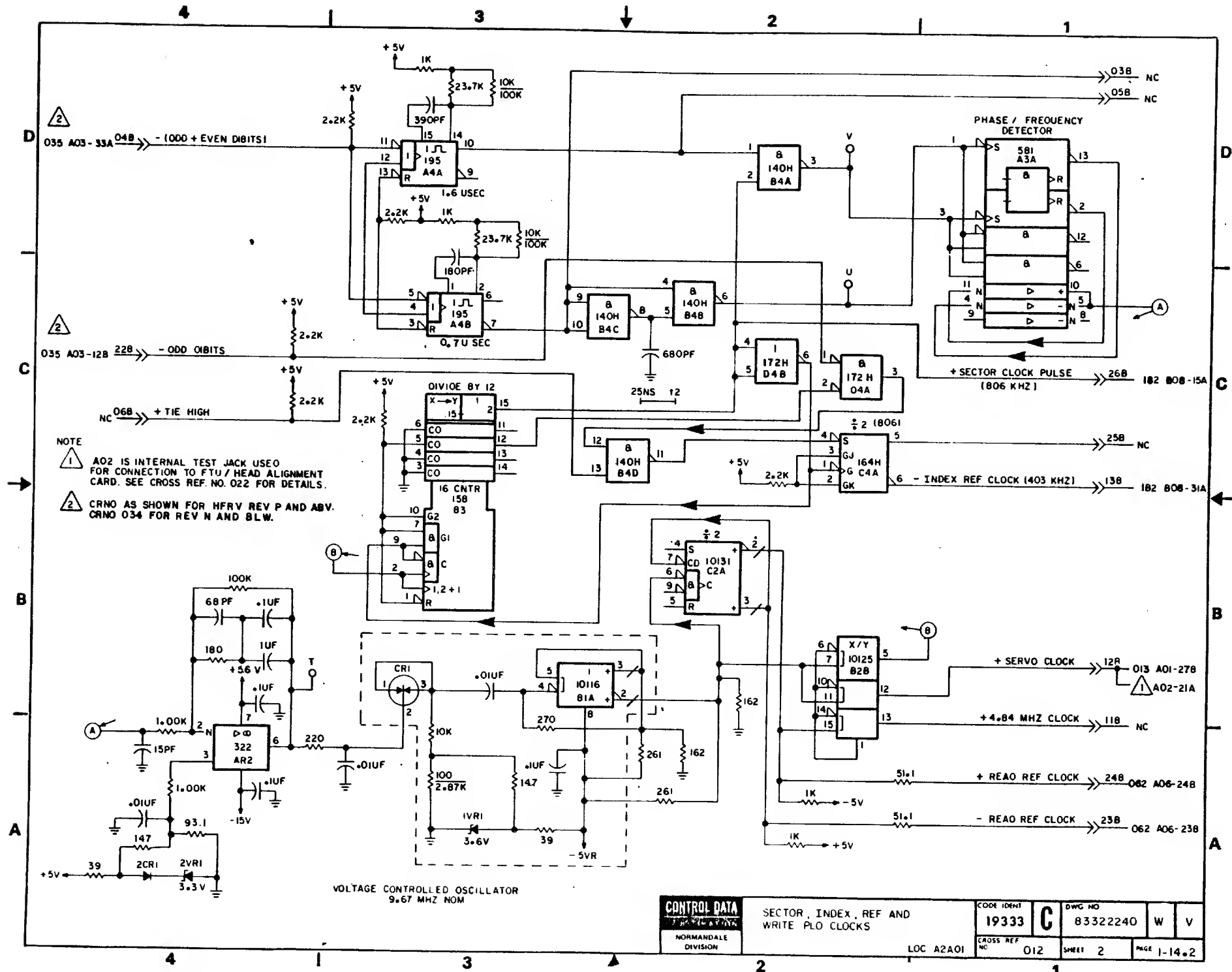
DRAWN	G. RABIAJE
CHECKED	
ENGINEER	E. J. N...
APPROVED	

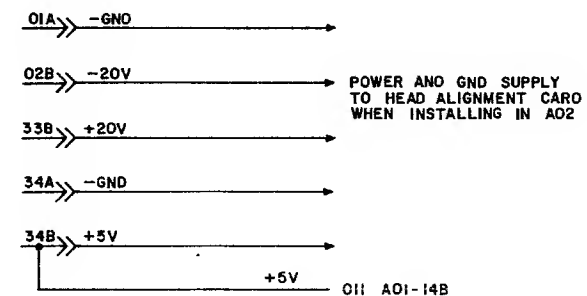
CONTROL DATA
NORMANVILLE DIVISION

WRITE CLOCK 806 KHZ
TO 9.67 MHZ
DIAGRAMS

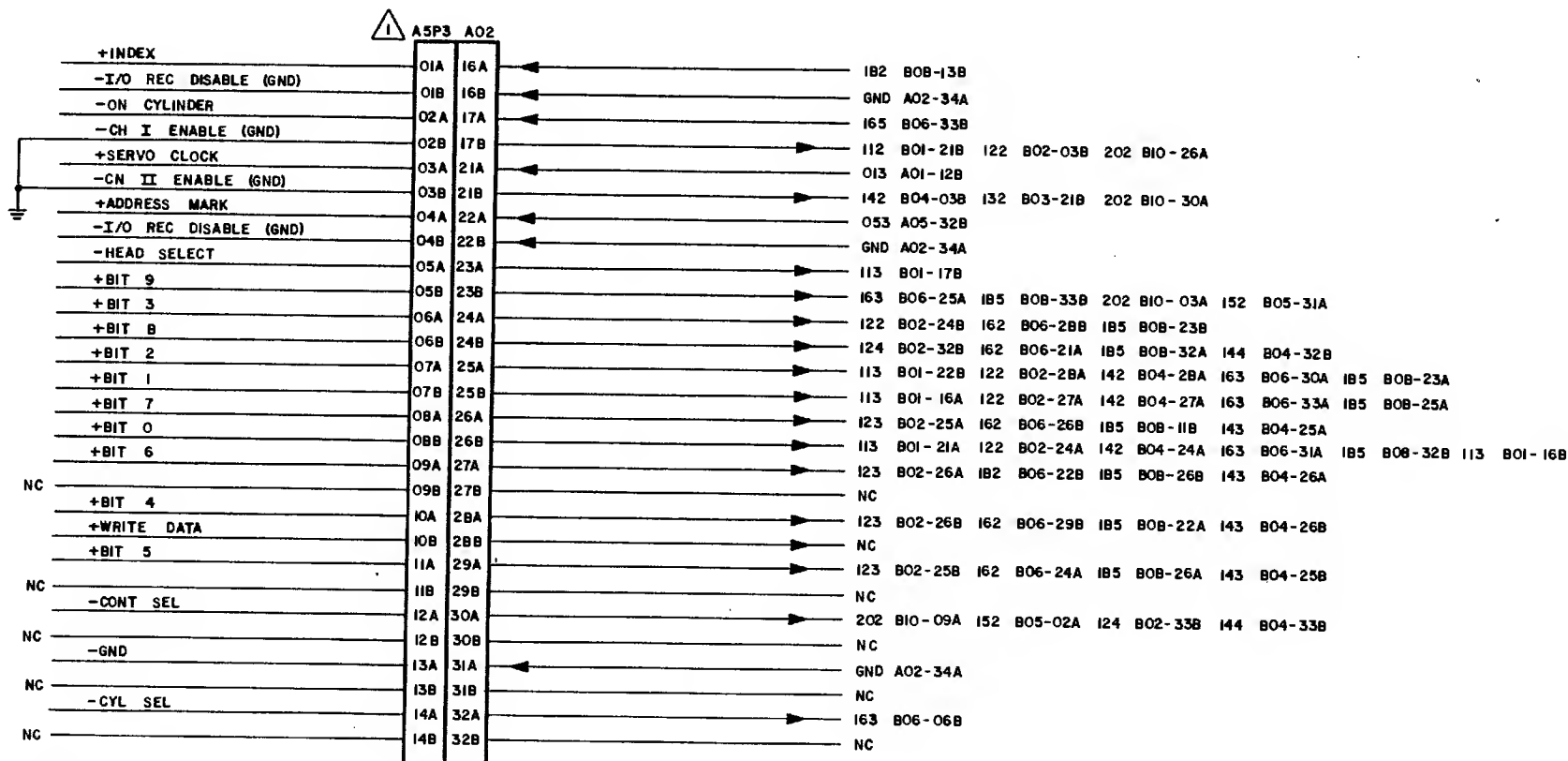
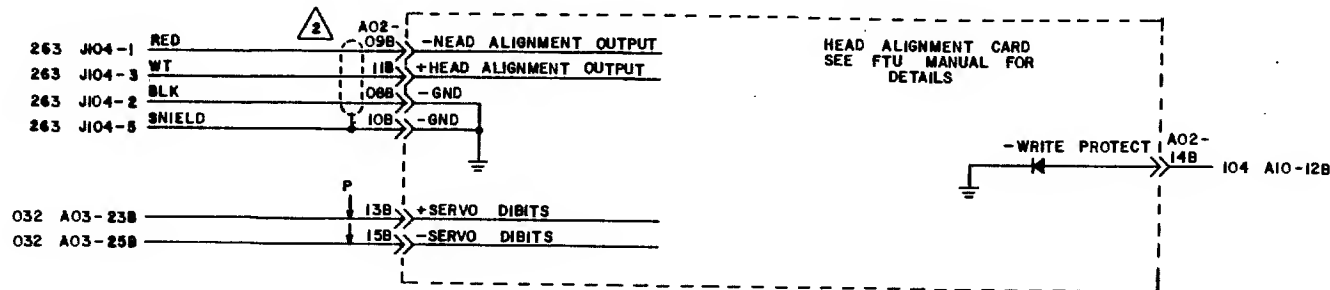
TYPE CLSV

CODE IDENT	19333	OWG NO	83322240	W	W
CROSS REF	011	SHEET	1 OF 3	PAGE	1-14-1



[illegible][illegible]

<table border="1"> <tr> <td>DRAWN</td> <td>3-11-76</td> <td>8-25-76</td> </tr> <tr> <td>CHECKED</td> <td></td> <td></td> </tr> <tr> <td>ENGINEER</td> <td></td> <td></td> </tr> <tr> <td>APPROVED</td> <td></td> <td></td> </tr> </table>	DRAWN	3-11-76	8-25-76	CHECKED			ENGINEER			APPROVED			<table border="1"> <tr> <td>CONTROL DATA</td> </tr> <tr> <td>COOPERATION</td> </tr> <tr> <td>NORMANDEALE DIVISION</td> </tr> </table>	CONTROL DATA	COOPERATION	NORMANDEALE DIVISION	<table border="1"> <tr> <td colspan="2">FTU/HEAD ALIGNMENT CARD</td> </tr> <tr> <td colspan="2">SLOT WIRING DIAGRAMS</td> </tr> <tr> <td colspan="2">LOC A2A02</td> </tr> </table>	FTU/HEAD ALIGNMENT CARD		SLOT WIRING DIAGRAMS		LOC A2A02		<table border="1"> <tr> <td>CODE IDENT</td> <td>19333</td> <td>C</td> <td>83322240</td> <td>K</td> <td>D</td> </tr> <tr> <td>R/S REF</td> <td>021</td> <td>SHEET</td> <td>1 of 2</td> <td colspan="2">PAGE 1-15</td> </tr> </table>	CODE IDENT	19333	C	83322240	K	D	R/S REF	021	SHEET	1 of 2	PAGE 1-15	
DRAWN	3-11-76	8-25-76																																		
CHECKED																																				
ENGINEER																																				
APPROVED																																				
CONTROL DATA																																				
COOPERATION																																				
NORMANDEALE DIVISION																																				
FTU/HEAD ALIGNMENT CARD																																				
SLOT WIRING DIAGRAMS																																				
LOC A2A02																																				
CODE IDENT	19333	C	83322240	K	D																															
R/S REF	021	SHEET	1 of 2	PAGE 1-15																																



NOTES:

- ASP3 IS I/O BYPASS CABLE FROM FTU.
- THIS CABLE IS USED FOR HEAD ALIGNMENT PURPOSES WITH THE HEAD ALIGNMENT CARD INSTALLED IN LOC AO2.
- CROSS REF NUMBERS LEAD READER TO LOGIC SHEET WHICH SHOWS CONNECTOR PIN IN FUNCTIONAL RELATIONSHIP TO REMAINDER OF DRIVE.

CONTROL DATA
CORPORATION
NORMANDEAL
DIVISION

FTU/HEAD ALIGNMENT
CARD SLOT
(9762)

CODE IDENT
19333

C

83322240

E

D

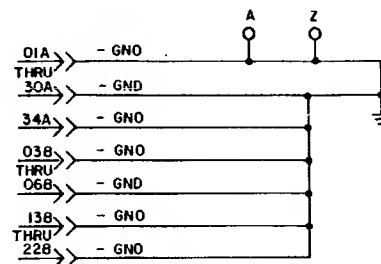
CROSS
REF NO 022

SHEET 2

PAGE 1-16

LOC: A2A02

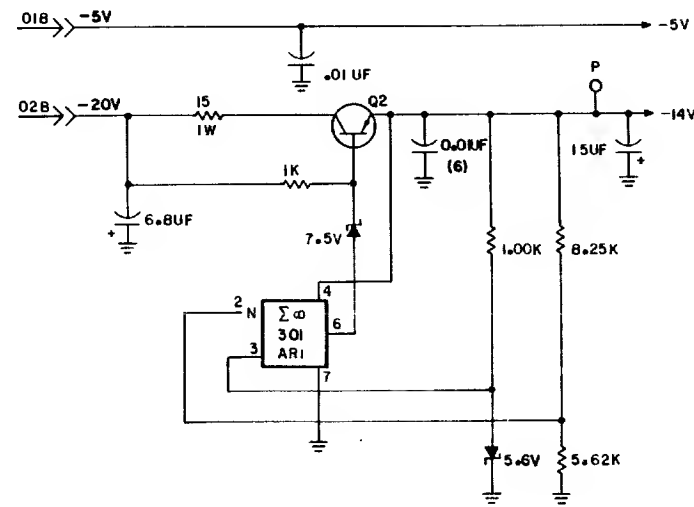
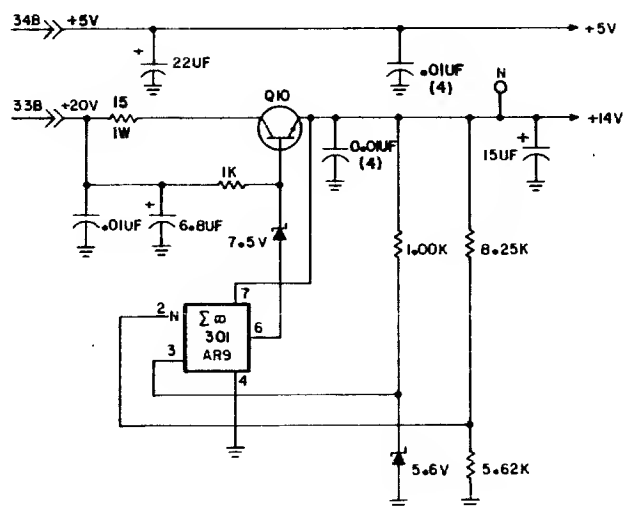
REVISION STATUS OF SHEETS																			
I	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A	A	A	A																
B	B	A	A																
C	C	C	C																
D	C	D	D																
E	E	D	D																
F	E	F	D																
G	E	F	G																
H	E	F	H																



UNUSED LOGIC ELEMENTS

TYPE	LOCATION	OUTPUT PIN(S)
200	D3	4,6

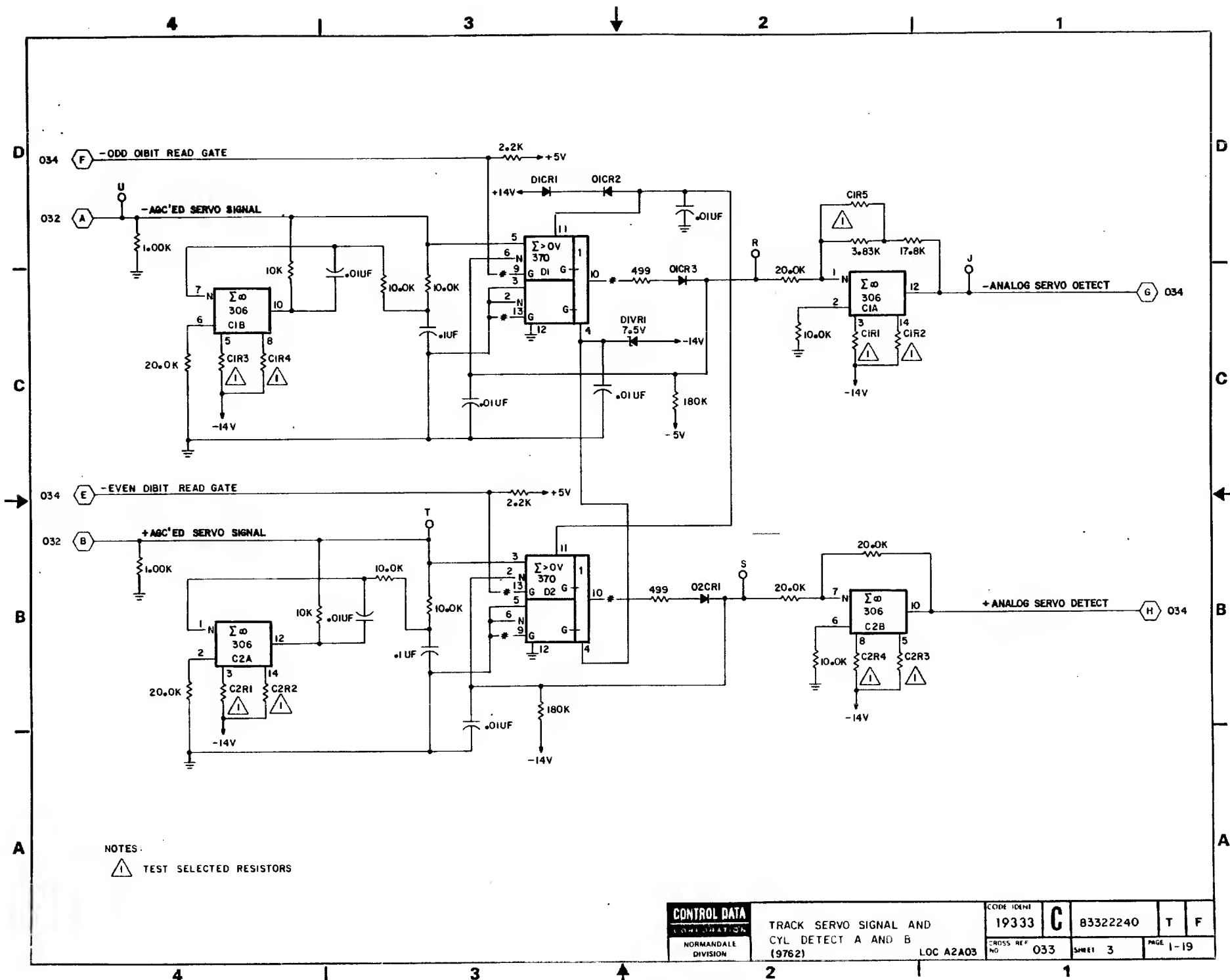
REV	ECO	DESCRIPTION	DRFT	DATE	CHK'D
A	PE 48296	CORRECT DIAGRAMS	WEB	11-1-78	
B	PE 48402	TRN CH			
C	PE 48523	ERR CORR	DM	7-26-77	
D	PE 48675	ERR CORR	DM	1-25-78	
E	PE 55591	3215 TO 370	MF	7-15-80	
F	PE 55944	CHG IC FAMILIES	MF	7-15-80	
G	PE 55986	CHG RES VALUES	MF	11-4-80	



THIS SET USED FOR HFRV REV N & BELOW (BK5XX=9762)

DRAWN	M ANDERSON	7	7	CONTROL DATA	CODE IDENT	19333	C	83322240	Z	H
CHECKED										
ENGINEER	S. L. L. L.	3-2-78		NORMANDALE DIVISION	TYPE HFRV	LOC A2A03	N. 031	SHEET 1 OF 4	PAGE 1-17	
APPROVED										

REF 83214803



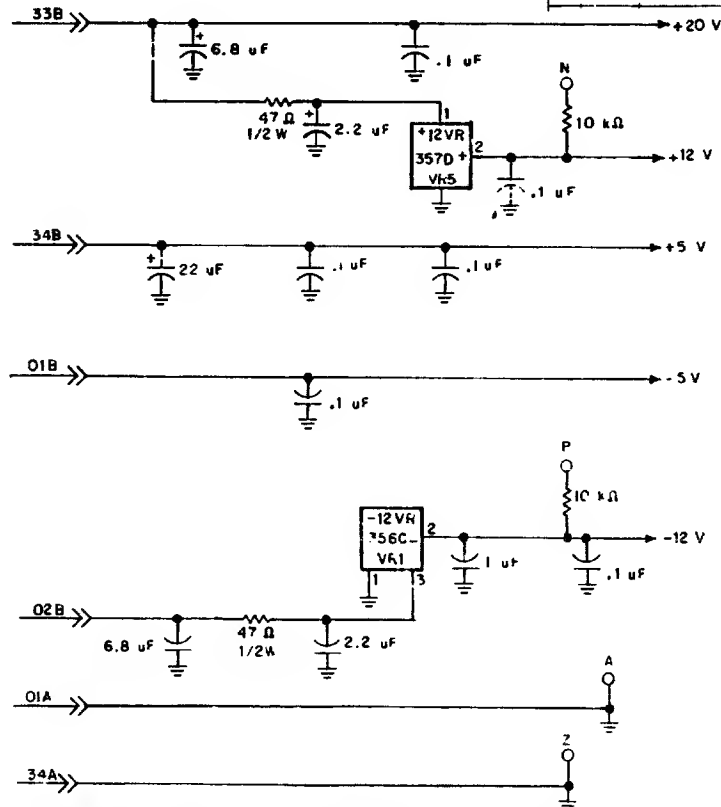
CONTROL DATA		CODE IDENT				
NORMANDALE DIVISION		19333	C	83322240	T	F
TRACK SERVO SIGNAL AND CYL DETECT A AND B (9762)		CROSS REF NO	033	SHEET	3	PAGE 1-19
LOC A2A03						

REVISION STATUS OF SHEETS																			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A	A	A	A																
B	B	A	A																
C	C	C	C																
D	C	D	D																
E	E	D	D																
F	E	F	D																
G	E	F	G																
H	E	F	H																
J	J	J	J	J															
K		K																	

UNUSED LOGIC ELEMENTS		
ELEMENTS	LOCATION	OUTPUT PINS (S)
324	D2	1
339	D5	7

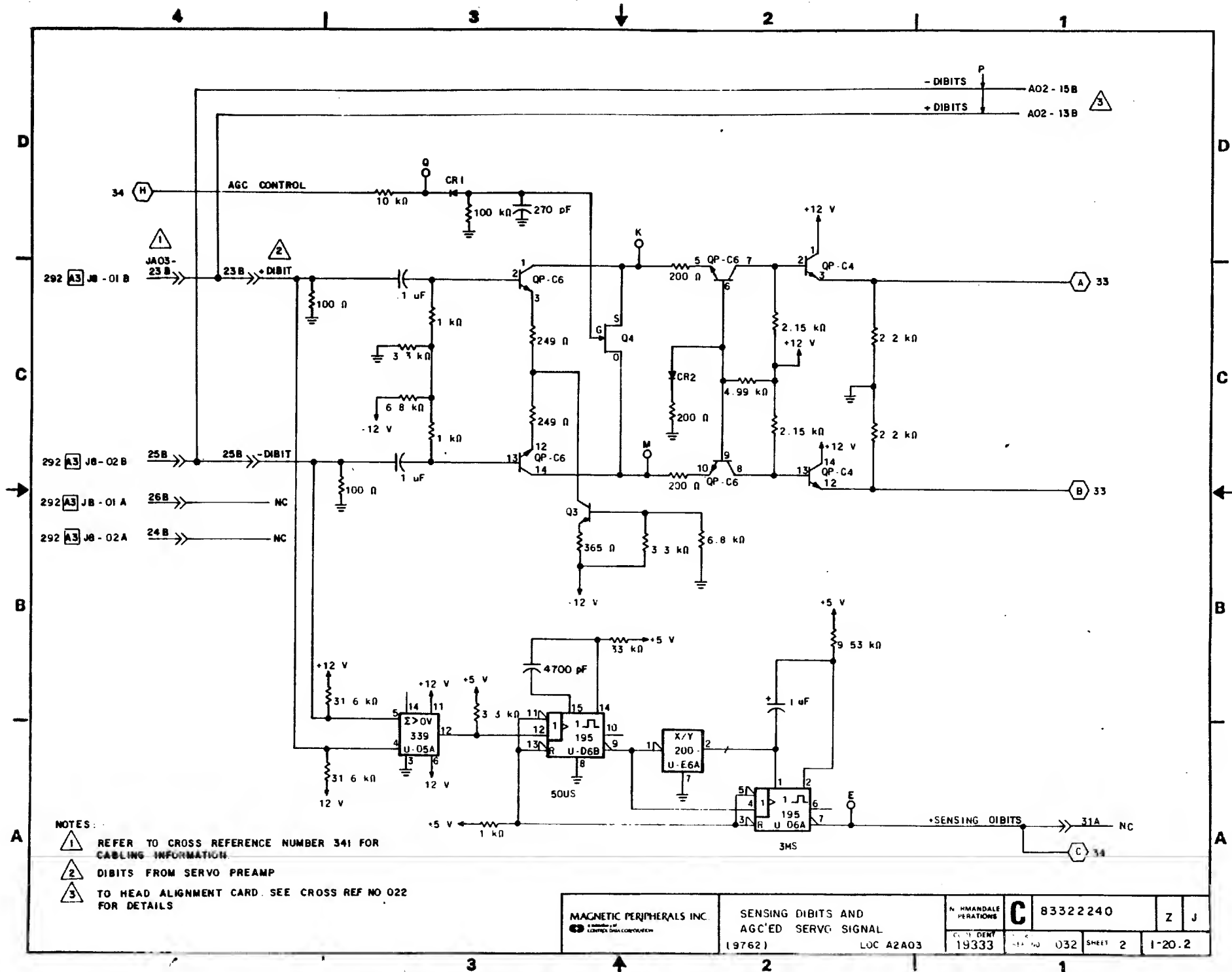
UNUSED DIODE PACKS	
LOCATION	PINS
B3	5,6,7,8,9,10,11,12

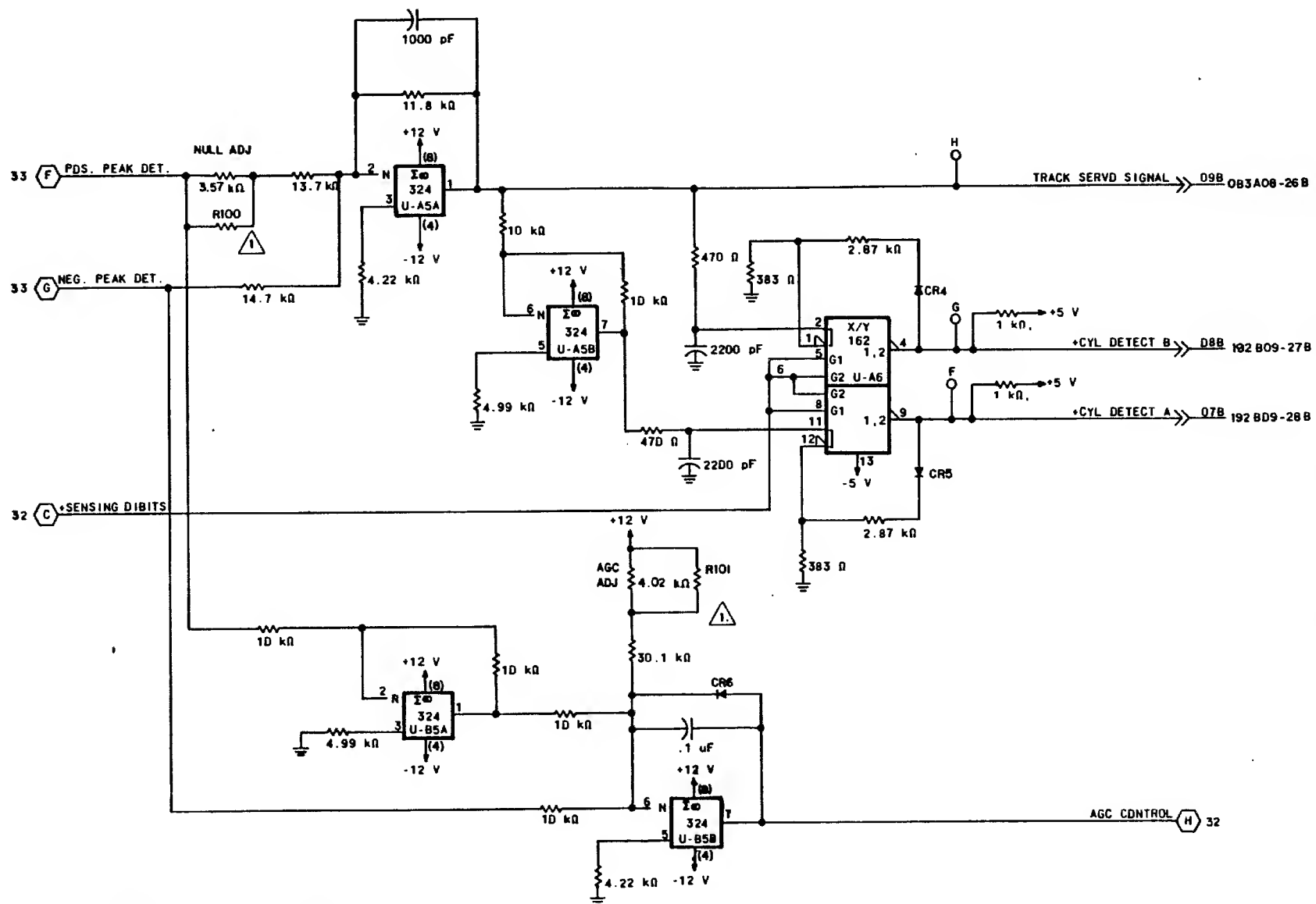
REVISIONS			
REV	ECG	DESCRIPTION	DATE
A	PE48256	ERR CORR	11-17-76
B	PE48402	ERROR CORRECTIONS	1-4-77
C	PE48523	ERR CORR CONNECTION	5-8-77
D	PE48675	ERROR CORRECTION	7-7-77
E	PE55593	5215 TO 370	2-13-79
F	PE55944	CHG IC FAMILIES	10-17-79
G	PE55986	CHG RES VALUES	11-4-79
H	PE55986	CHG RES VALUES	11-4-79
J	PE55986	CHG RES VALUES	11-4-79
K	PE55986	CHG RES VALUES	11-4-79



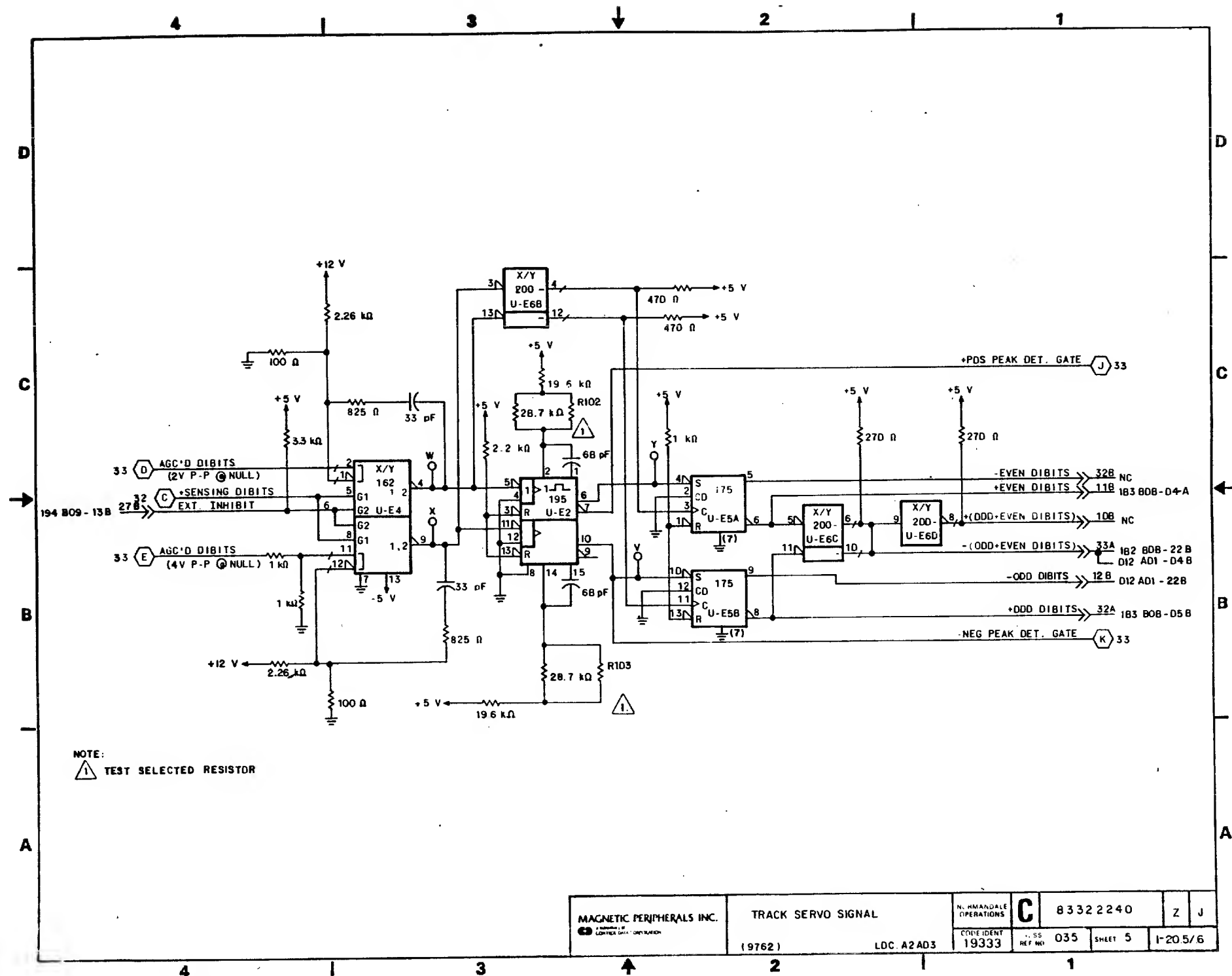
THIS SET USED FOR HFRV REV P & ABOVE (BK5XX=9762)

DESIGNER	M. ANDERSON	DATE	12/1/76	CONTROL DATA	FINE SERVO DECODER DIAGRAMS	CODE IDENT	19333	C	83322240	2	K
ENGINEER				NORMANDALE DIVISION	TYPE HFRV	LOC A2A03	031	5	1-20		





NOTE:
 1 TEST SELUTED RESISTORS



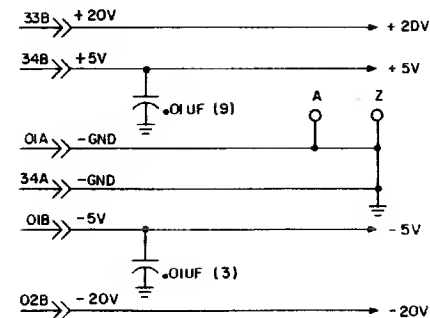
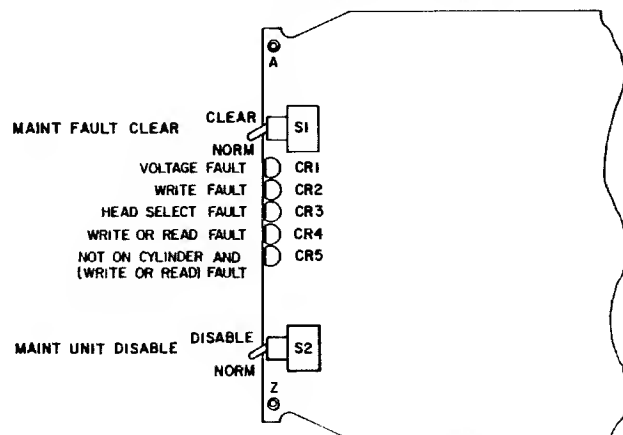
REVISION STATUS OF SHEETS

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A	A	A	A	A																
B	A	B	A																	
C	C	C	C	C																
D	D	D	D	D																
E	D	E	E																	
F	D	E	F																	
G	D	G	F																	
H	D	H	F																	

REVISIONS

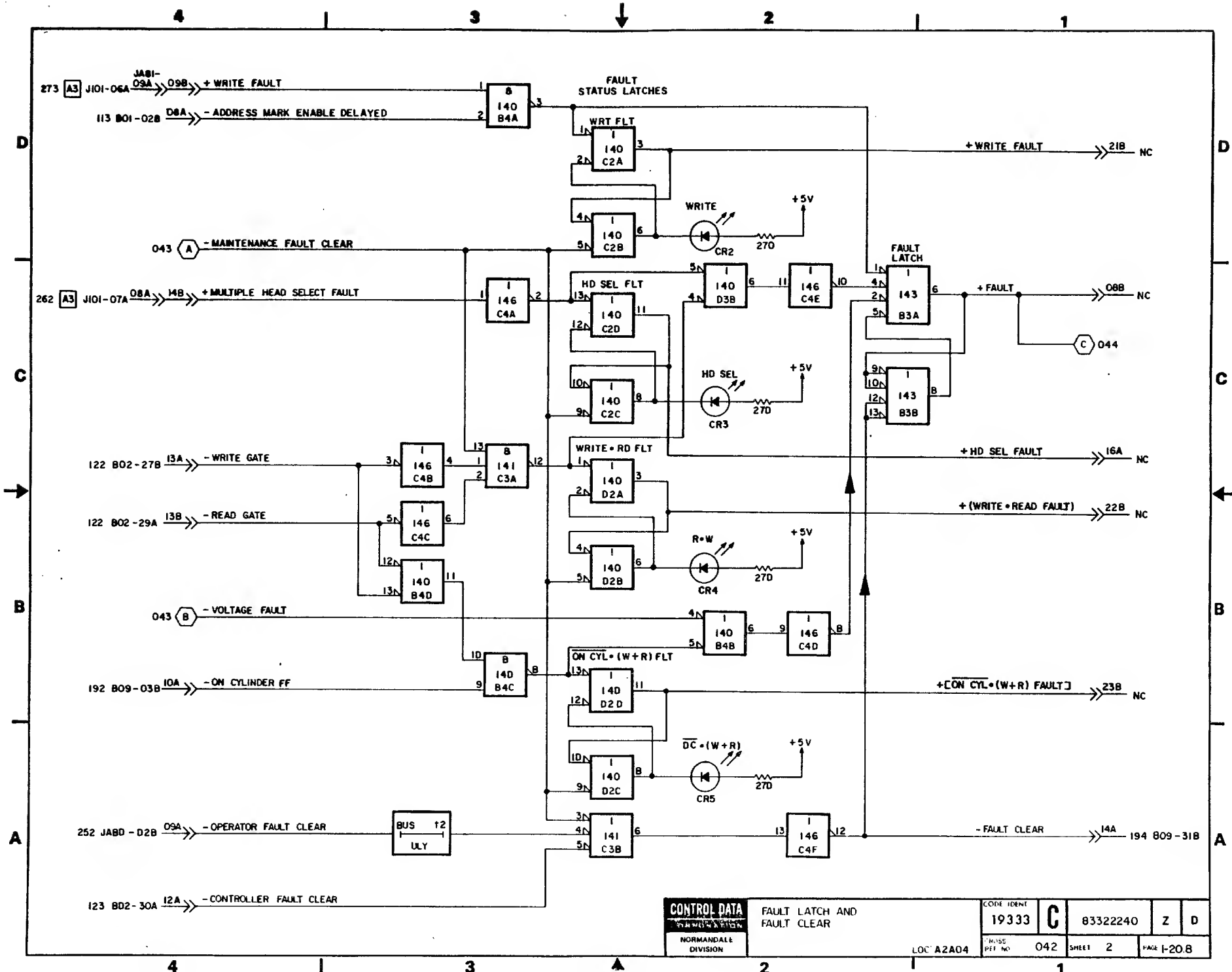
REV	ECO	DESCRIPTION	DRFT	DATE	CHK'D
A	PE2900C	RELEASED	M.A.		
B	PE48296	CORRECT DIAGRAMS	WEB	11-1-76	
C	PE48402	ERR CORR			
D	PE48523	ERR CORR	DM	7-26-77	
E	PE48675	ERR CORR	DM	1-25-78	
F	PE55370	ERR CORR	A.A.O.	6-15-78	
G	PE57173	CHANGE IC FAMILIES	M.F.	11-4-80	
H	PE57473A	CHG RESISTORS	M.J.	11-1-82	

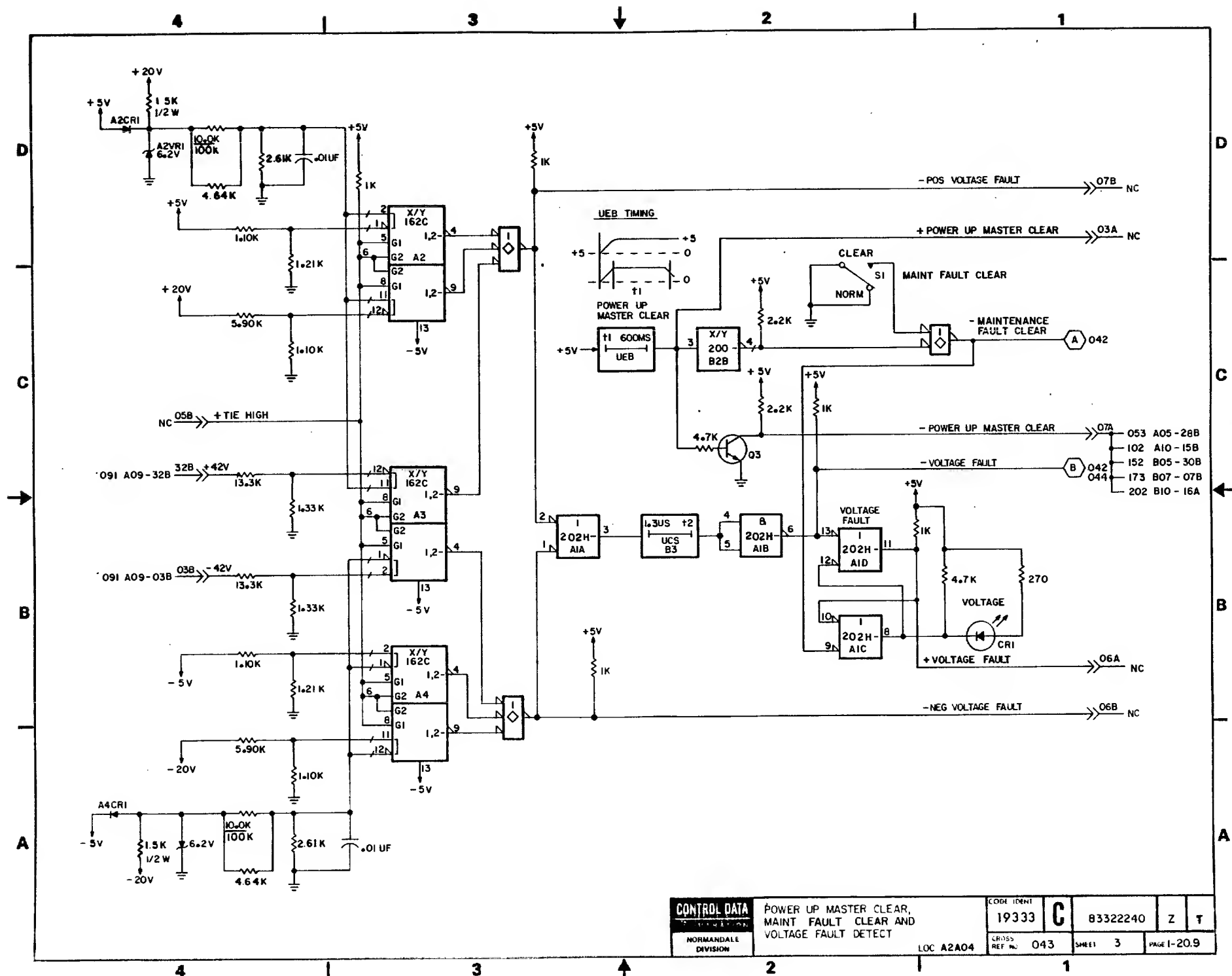
MAINTENANCE SWITCHES AND FAULT INDICATORS ON CARD EDGE

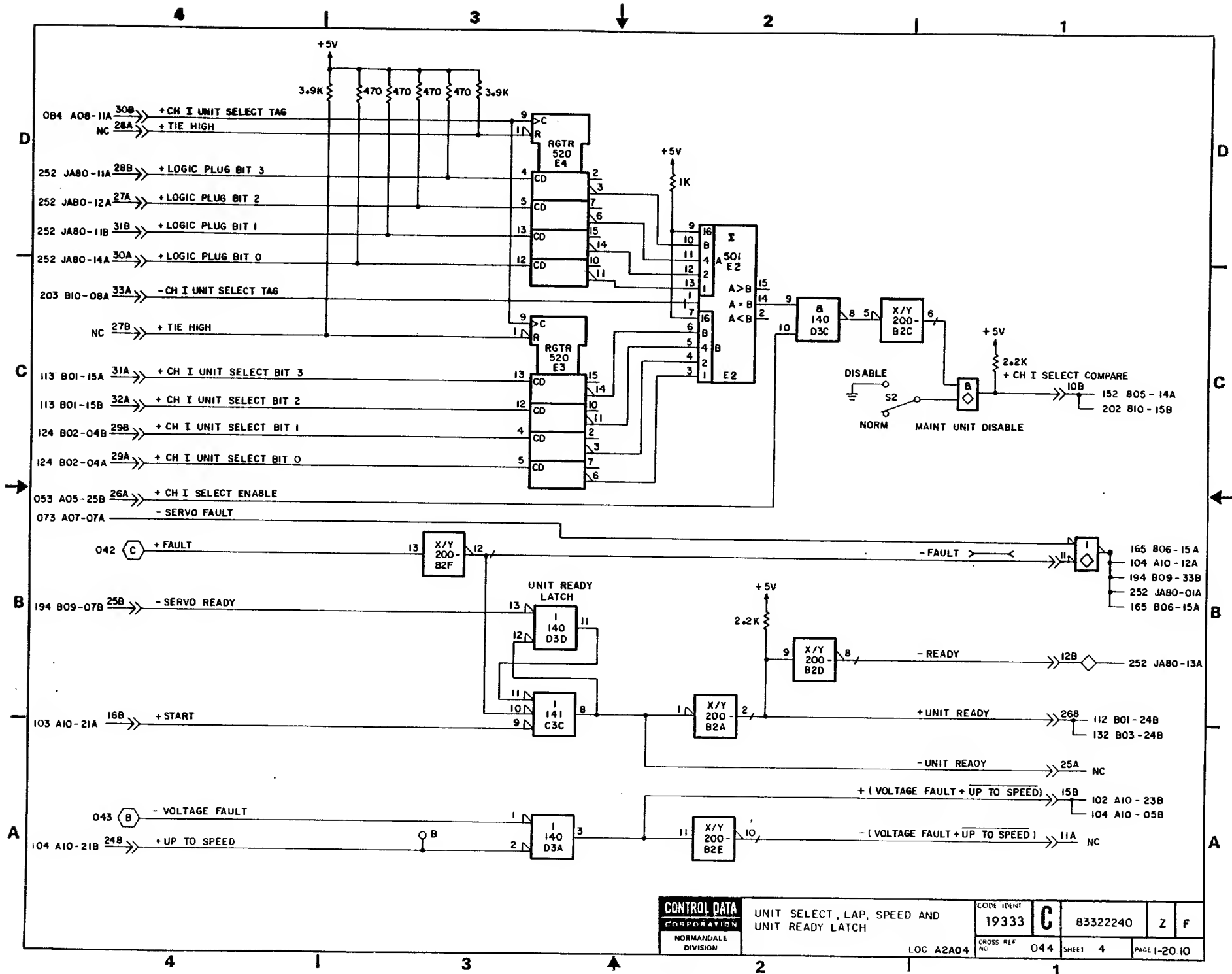


APPLICABLE TO ALL BK5XX UNITS EXCEPT BK5CI-E/F/J/K.

DESIGN	G. RABINE 8/10/76	CONTROL DATA	FAULT CARD	CODE IDENT	19333	C	83322240	Z	H
CHECKED		CONFIRMATION	DIAGRAMS	CH330 REF	041	SHEET	1 OF 4	PAGE	1-207
ENGINEER		NORMANDALE	TYPE DKFV	LOC A2A04					
APPROVED		DIVISION							



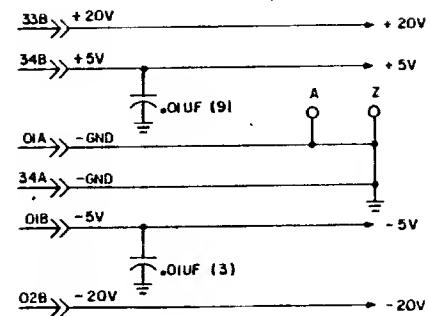




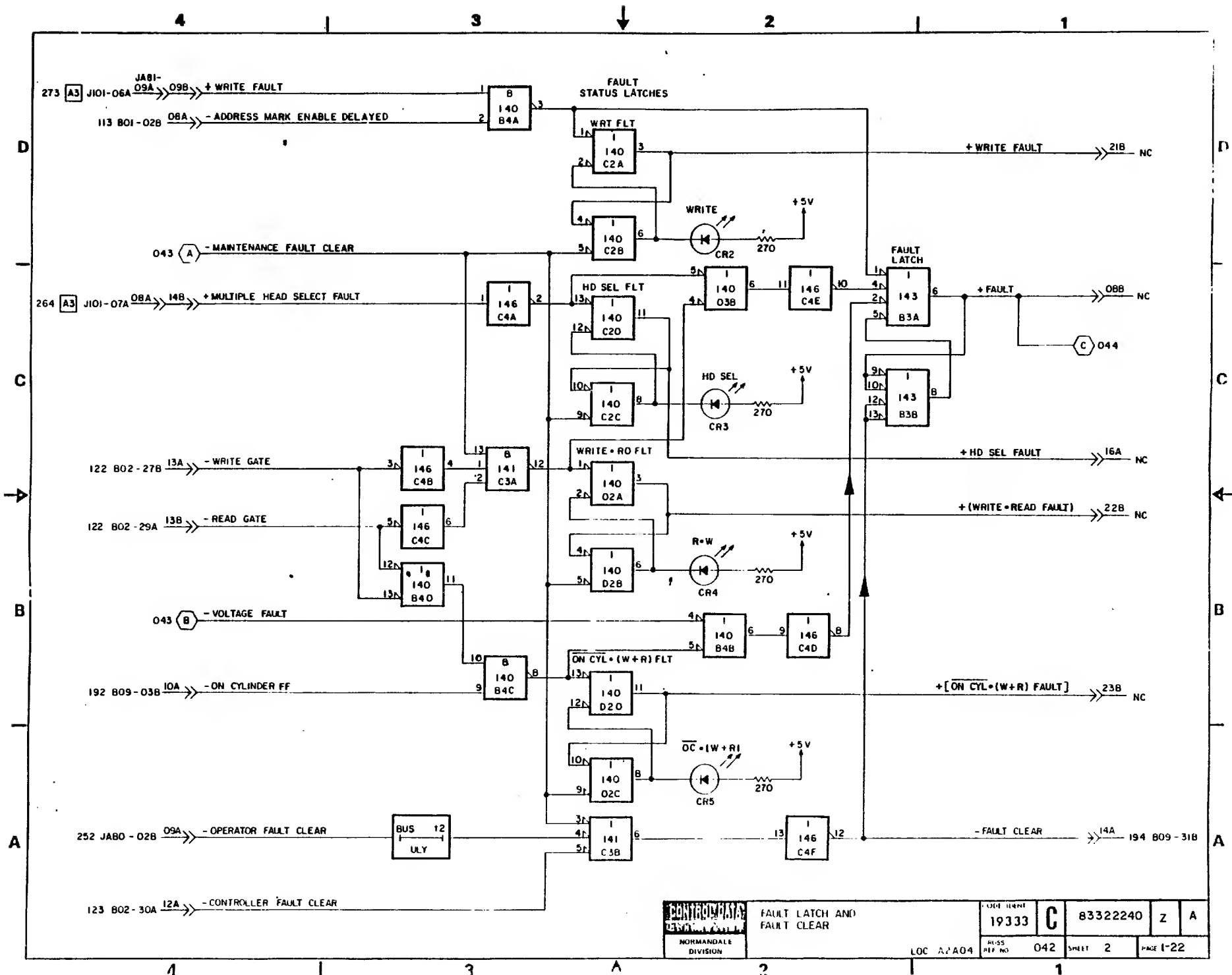
[illegible][illegible]

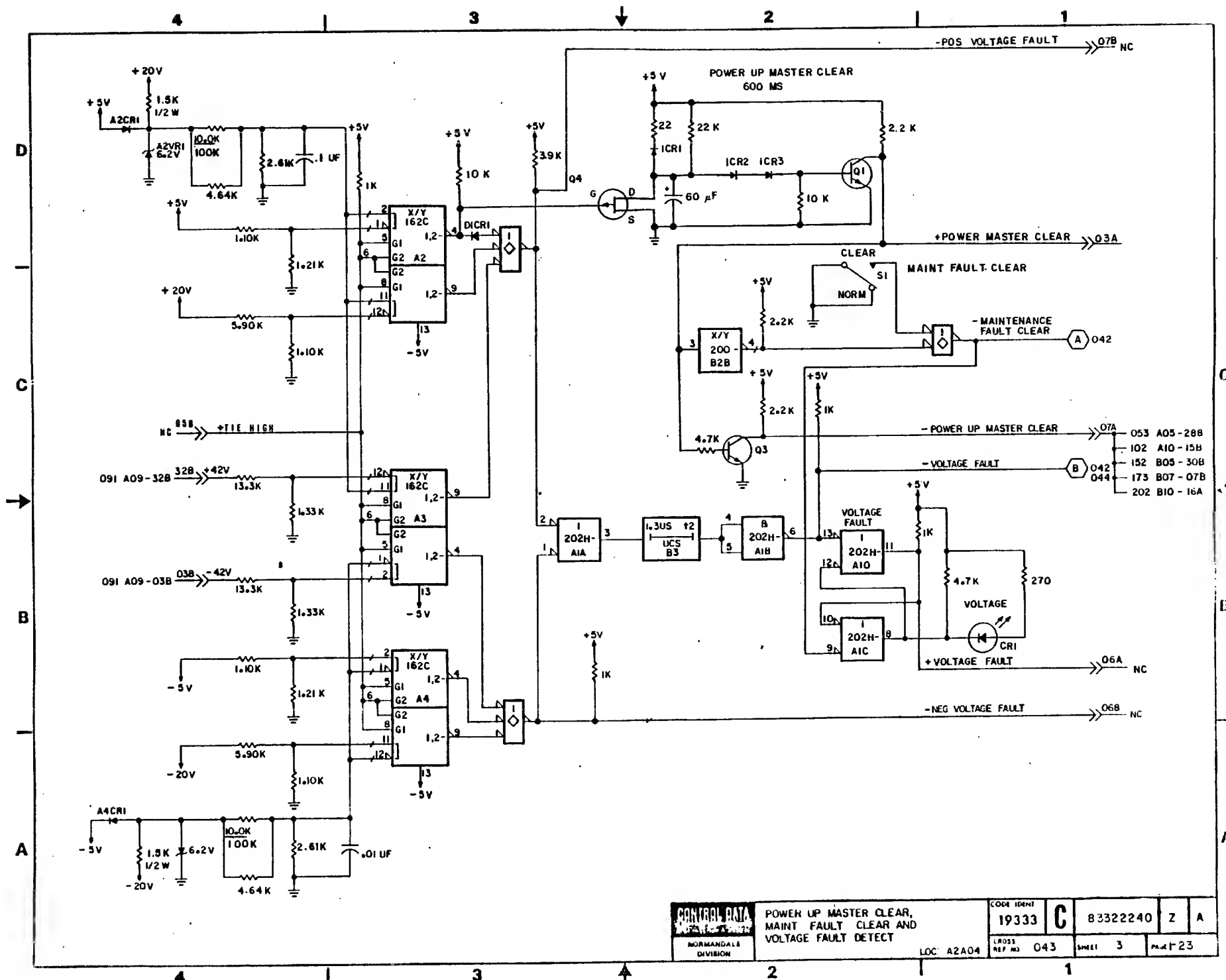
The diagram shows the rear panel of the Model 100 computer with the following components:

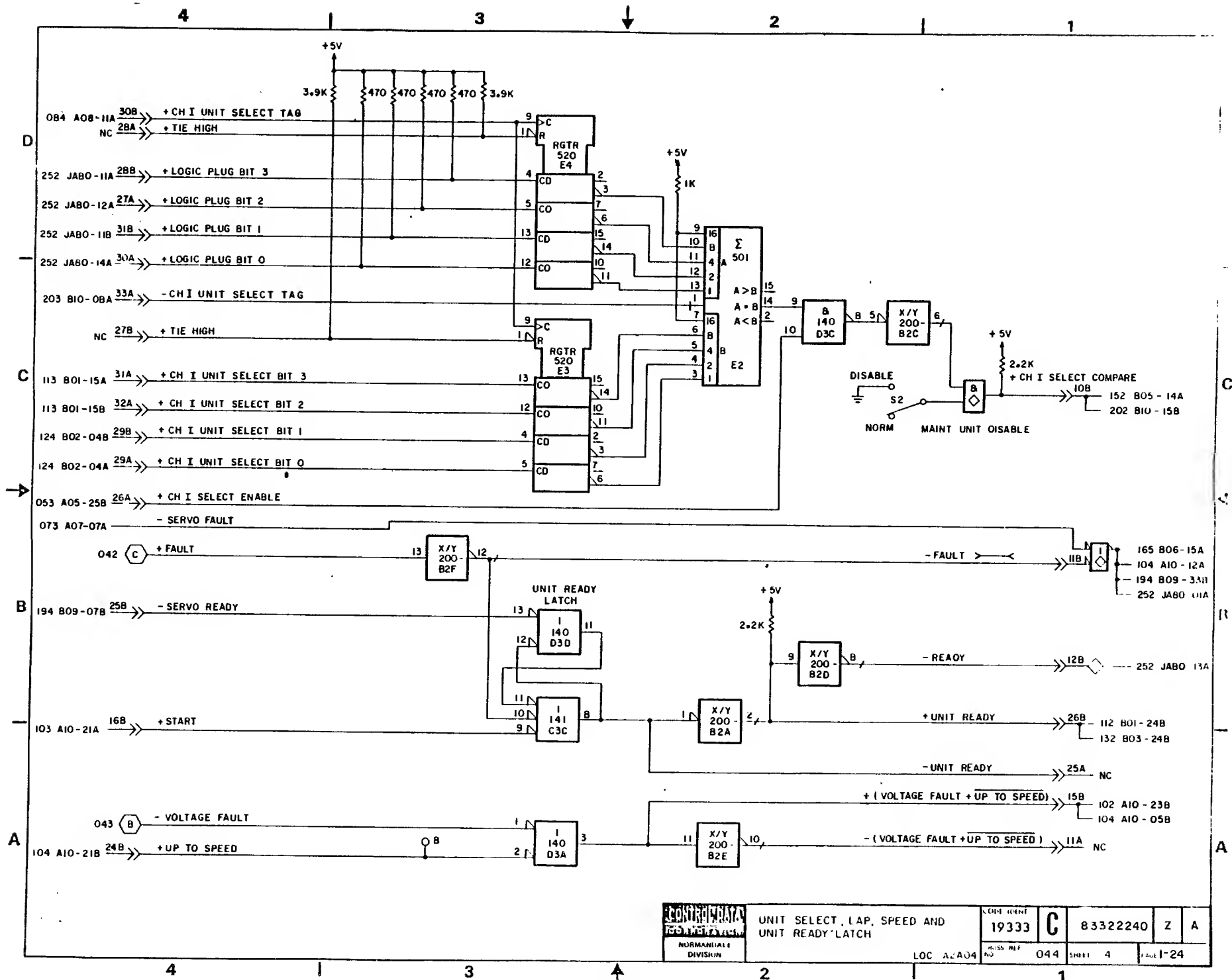
- MAINT FAULT CLEAR**: A switch labeled **Si** with positions **CLEAR** and **NORM**.
- VOLTAGE FAULT**: An indicator light labeled ***CR1**.
- WRITE FAULT**: An indicator light labeled **CR2**.
- HEAD SELECT FAULT**: An indicator light labeled **CR3**.
- WRITE OR READ FAULT**: An indicator light labeled **CR4**.
- NOT ON CYLINDER AND (WRITE OR READ) FAULT**: An indicator light labeled **CR5**.
- MAINT UNIT DISABLE**: A switch labeled **S2** with positions **DISABLE** and **NORM**.
- GROUND**: A terminal labeled **0** at the bottom.



DRAWN	G. RABINE	8/10/78	CONTROL DATA THE HARDWARE	FAULT CARD		CODE IDENT	C	83322240	K	A				
CHECKED				DIAGRAMS		19333								
ENGINEER	S. J. JONES	9/20/78		TYPE-RKFV		LOC. A2A04					V.ROSS REF NO	041	SHEET 1 OF 4	PAGE 1-21
APPROVED				NORMAN DALE DIVISION										



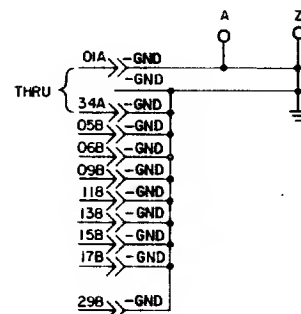
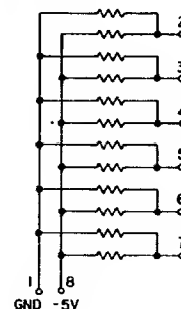




REVISION STATUS OF SHEETS																			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A	A	A																	
B	B	B																	
C	B	C																	

UNUSED LOGIC ELEMENTS		
TYPE	LOCATION	OUTPUT PIN(S)
140	C1	3,6
164S	D2	8,9
10104	A3	2
10102	B2	9,15,14
10125	O3	12,13
10131	B3	14,15

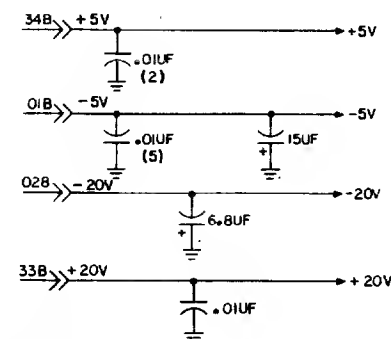
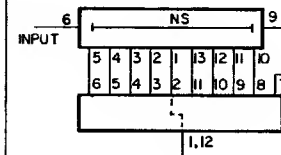
NOTES:
 1. TYPICAL CONFIGURATION FOR TERMINATORS AT-C2A, AT-C2B AND AT-B4A AS FOLLOWS:



REVISIONS					
REV.	ECO.	DESCRIPTION	DRFT	DATE	CHK'D
A	FE2900	RELEASED	MLA		
B	FE48402	CORRECT DIAGRAMS	WEB	12-18-78	
C		CORRECT SIGNAL NAME	MA	10-7-78	

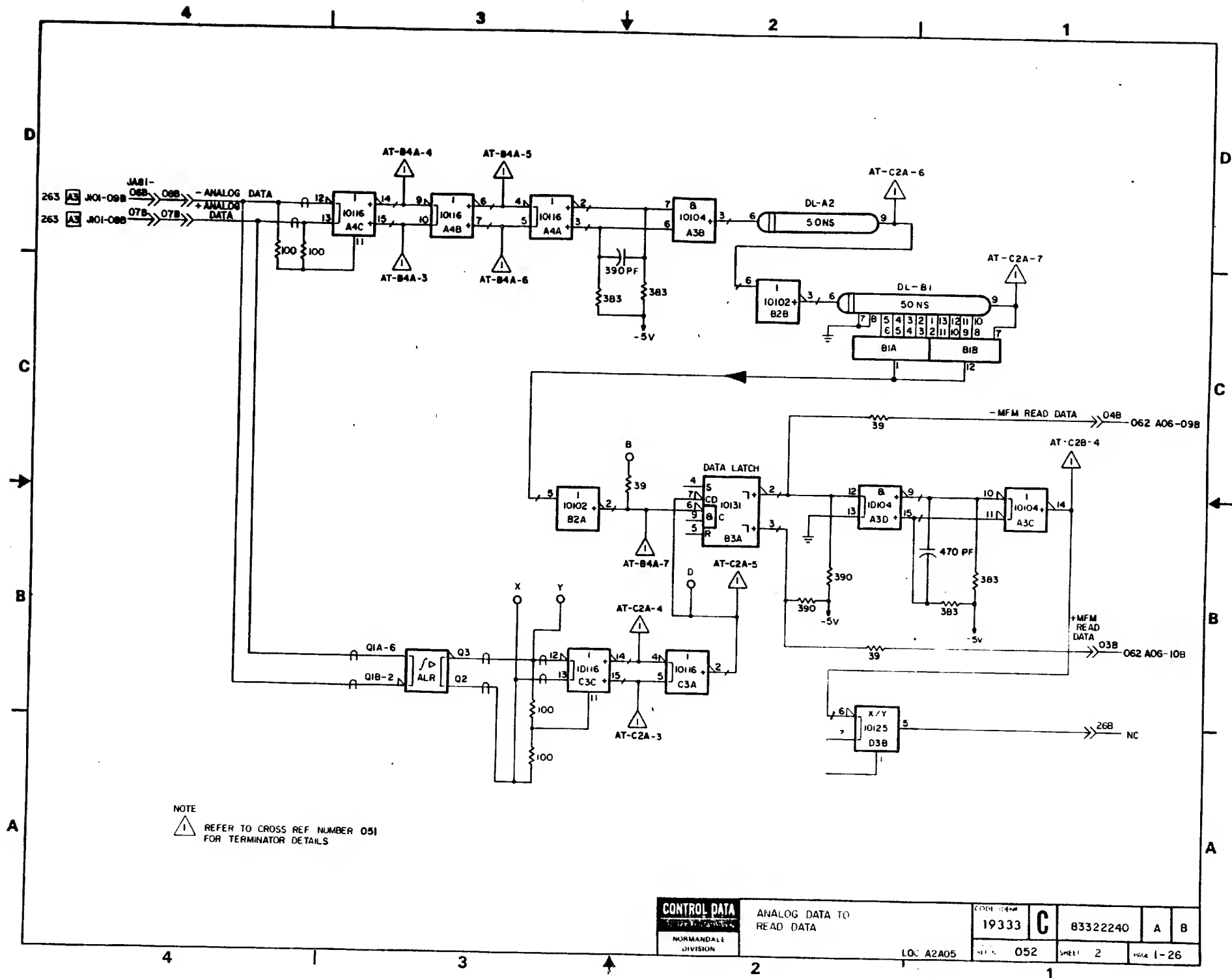
2. DELAY LINES ARE CONNECTED TO JUMPER BLOCK AS SHOWN IN DIAGRAM BELOW. ACTUAL DELAYS ARE SELECTED DURING MANUFACTURING. THIS DIAGRAM SHOWS TYPICAL CONNECTIONS. DELAY TIME FOR EACH DELAY LINE PIN RELATIVE TO PIN 6 INPUT IS SHOWN IN CHART BELOW.

PIN	DELAY TIMES (NS)	
	B1	A2
5	5	10
4	10	20
3	15	30
2	20	40
1	25	50
13	30	60
12	35	70
11	40	80
10	45	90
9	50	100



HLRV REV B AND BELOW.

DRAWN	MANDERSON	CONTROL DATA	DATA LATCH DIAGRAMS	CODE IDENT	19333	C	83322240	Y	G
CHECKED									
ENGINEER									
APPROVED									
		NORMANDEALE DIVISION	TYPE HLRV-REV B	LOC A2A05	CROSS REF NO	051	SHEET 1 of 3	PAGE 1-25	



CONTROL DATA

NORMANDALE
 DIVISION

ANALOG DATA TO
 READ DATA

LOC A2A05

CODE 19333

C

83322240

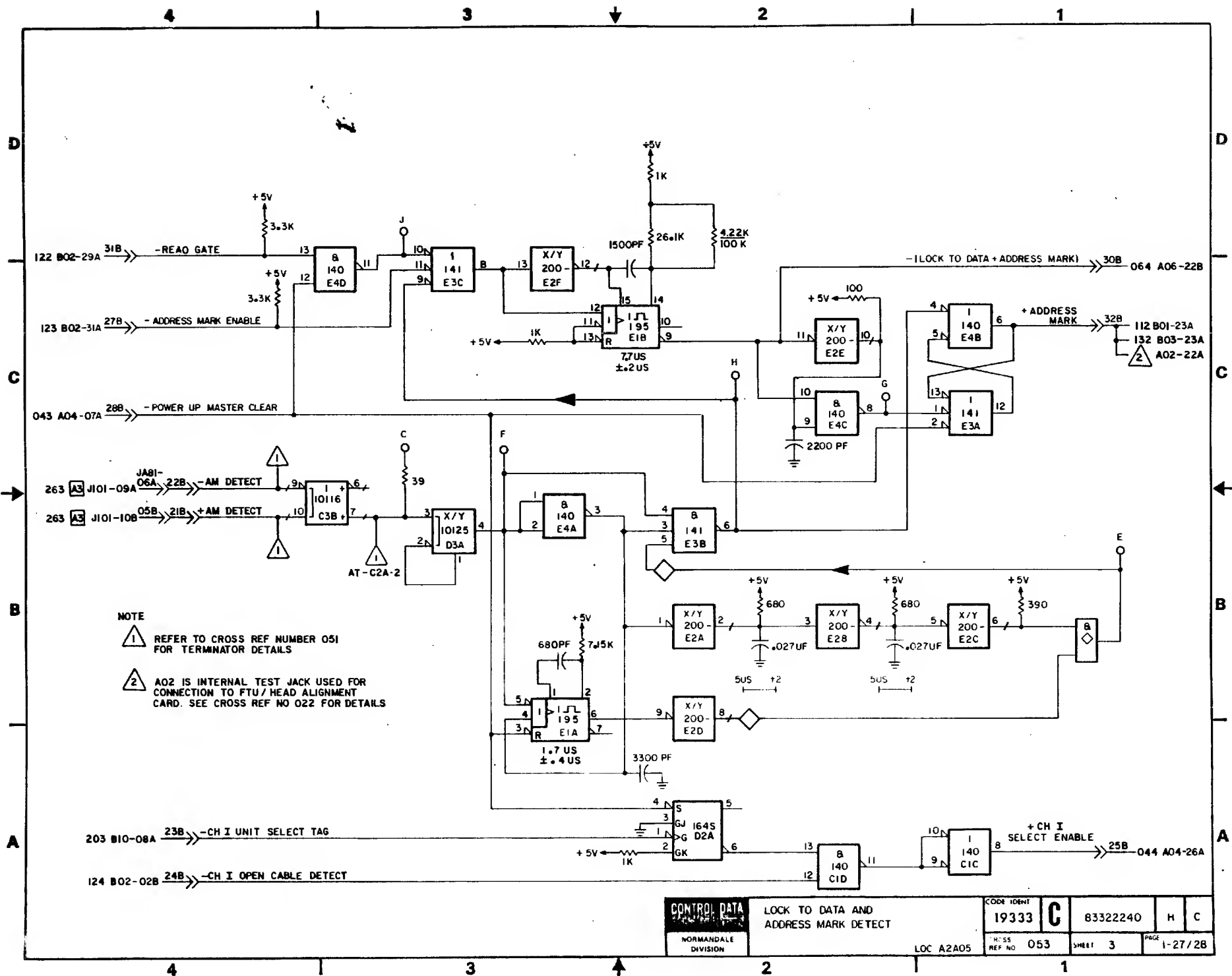
A

B

052

SHEET 2

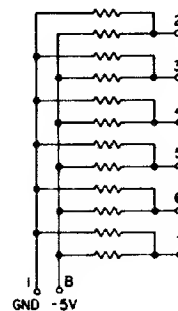
PAGE 1-26



REVISION STATUS OF SHEETS																			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
C	C	C																	
D	C	D																	
E	C	E																	
F		F																	
G	G																		

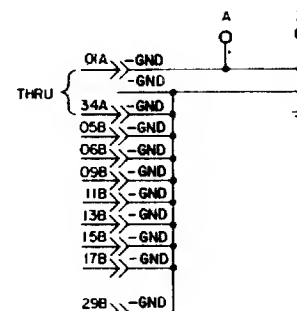
NOTES

1 TYPICAL CONFIGURATION FOR TERMINATORS AT-C2A, AT-C2B AND AT-B4A AS FOLLOWS



UNUSED LOGIC ELEMENTS

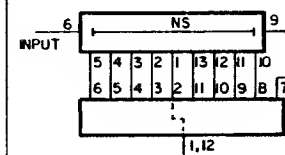
TYPE	LOCATION	OUTPUT PIN(S)
195	A1	9, 10
1645	D2	8, 9
10104	A3	2
10102	B2	9, 15, 14
10125	D3	12, 13
10131	B3	14, 15
200	E2	2, 4, 6, 8



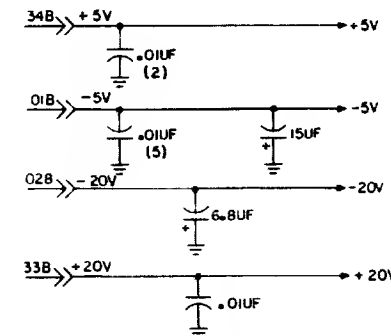
REVISIONS				
REV	ECO	DESCRIPTION	DRFT	DATE
C	PE48543	HLRV IMPROVEMENT	MLA	1-31-78
D	PE48673	ERR CORR	MLA	1-31-78
E	PE48918	CHG DELAY	MLA	1-31-78
F	PE22871	CORRECT SCHEMATICS	MJ	5-24-82
G	DJ00159	CHG HEADER PINS	MJ	5-24-82

2 DELAY LINES ARE CONNECTED TO JUMPER BLOCK AS SHOWN IN DIAGRAM BELOW. ACTUAL DELAYS ARE SELECTED DURING MANUFACTURING. THIS DIAGRAM SHOWS TYPICAL CONNECTIONS. DELAY TIME FOR EACH DELAY LINE PIN RELATIVE TO PIN 6 INPUT IS SHOWN IN CHART BELOW.

PIN	DELAY TIMES (NS)	
	B1	A2
5	5	10
4	10	20
3	15	30
2	20	40
1	25	50
13	30	60
12	35	70
11	40	80
10	45	90
9	50	100

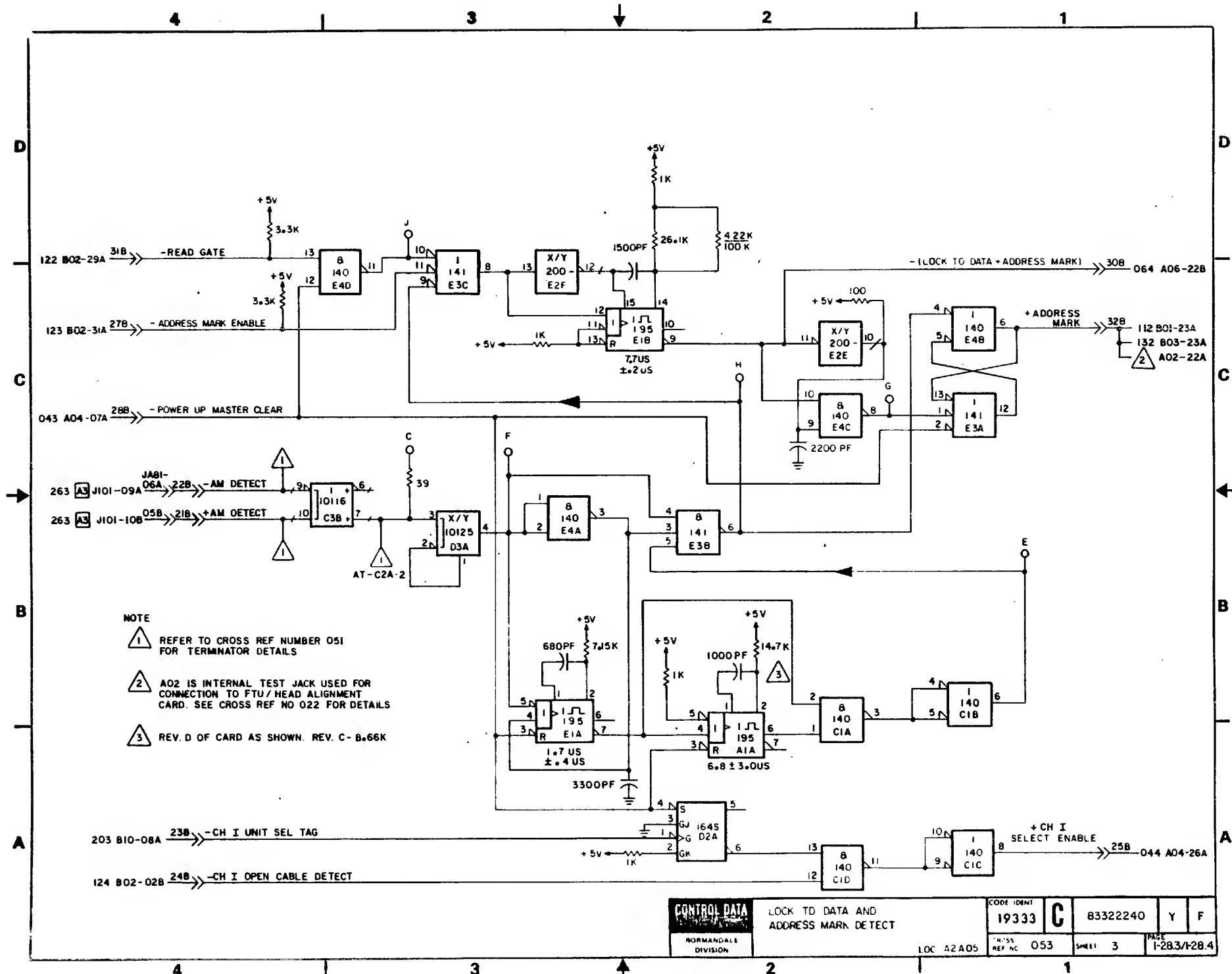


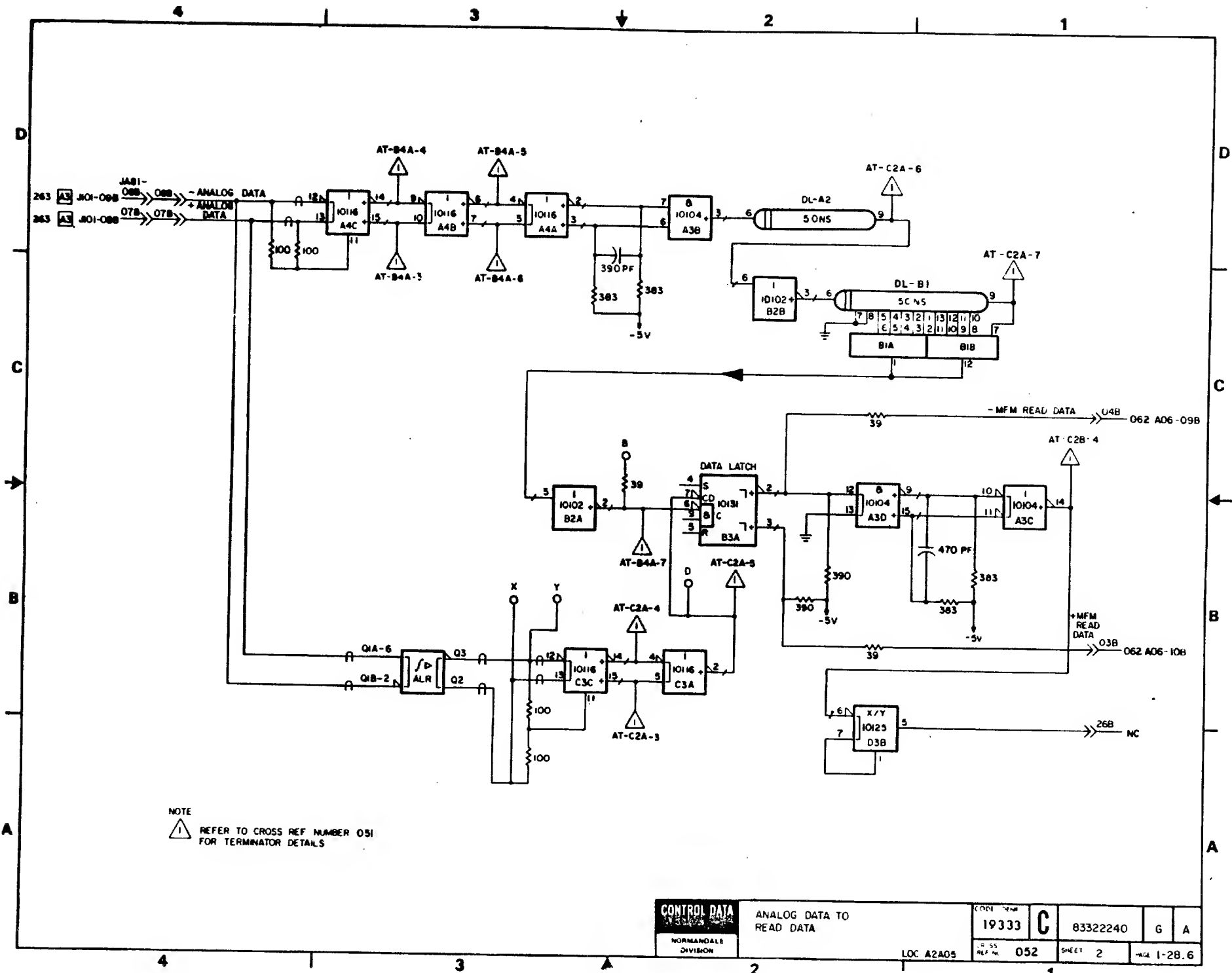
3 PINS 4, 5, 6 OF B1A AND PINS 7, 8, 9 OF B1B ARE ONLY INSTALLED WHEN REQUIRED.



HLRV REV C AND ABOVE.

DRAWN	MANDERSON	CONTROL DATA	DATA LATCH DIAGRAMS	CODE IDENT	19333	C	83322240	Y	G
CHECKED				CROSS REF NO	051				
ENGINEER		NORMANDELL DIVISION	TYPE HLRV-REV C	LOC	A2A05		SHEET	1 OF 3	PAGE
APPROVED				REF	83214805				1-28.1





REVISION STATUS OF SHEETS																			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A	A	A	A	A															
B	B	B	B	B															
C	C	B	B	B															
D	C	D	B	B															
E	C	E	B	B															
F	F		F																
G	G		G																
H	H	H	H	H															
J		J																	

UNUSED LOGIC ELEMENTS

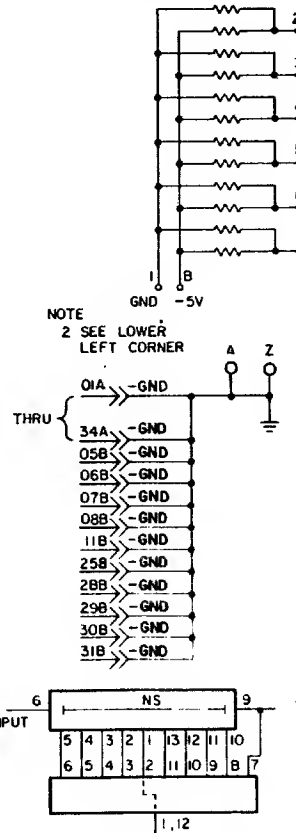
TYPE	LOCATION	OUTPUT PIN (S)
10131	E4	2,3
10116	E1	14,15
10116	C3	2,3,14,15
10125	D4	4,5

PIN	DELAY TIMES (NS)	
	B1	A2
5	5	10
4	10	20
3	15	30
2	20	40
1	25	50
13	30	60
12	35	70
11	40	80
10	45	90
9	50	100

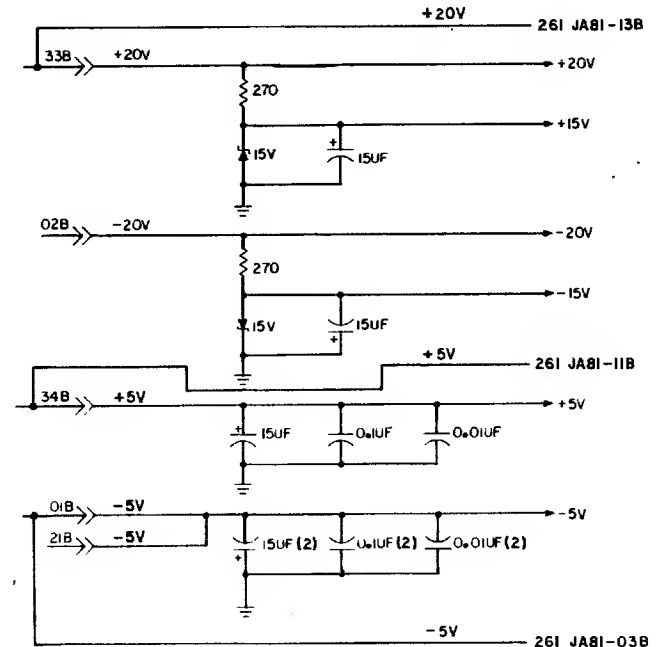
2 DELAY LINES ARE CONNECTED TO JUMPER BLOCK AS SHOWN IN DIAGRAM BELOW. ACTUAL DELAYS ARE SELECTED DURING MANUFACTURING. THIS DIAGRAM SHOWS TYPICAL CONNECTIONS. DELAY TIME FOR EACH DELAY LINE PIN RELATIVE TO PIN 6 INPUT IS SHOWN IN CHART BELOW.

NOTES:

1 TYPICAL CONFIGURATION FOR TERMINATORS ATA3, ATB2, ATB3, ATB4, ATC3, ATD4, ATE2 AS FOLLOWS



REVISIONS				
REV	ECO	DESCRIPTION	DRFT	DATE
A	PE23000	RELEASED	MLA	
B	PE48402	CORRECT DIAGRAMS	GR	12-16-76
C	PE55604	CORRECT DIAGRAM	TH	7-26-79
D	PE55862	BIAS ADJUSTMENT	MF	7-13-81
E	PE60250	IMPROVE YIELD	MF	7-13-81
F	DJ00001	CORRECT DIA'S	MF	7-13-81
G	DJ00001A	LOGIC DIA ERRORS	MJ	5-25-82
H	DJ22000	XFER FROM PE	MJ	5-25-82
J	DJ00439	BD BLANK CHG BLTZ	MJ	5-25-82

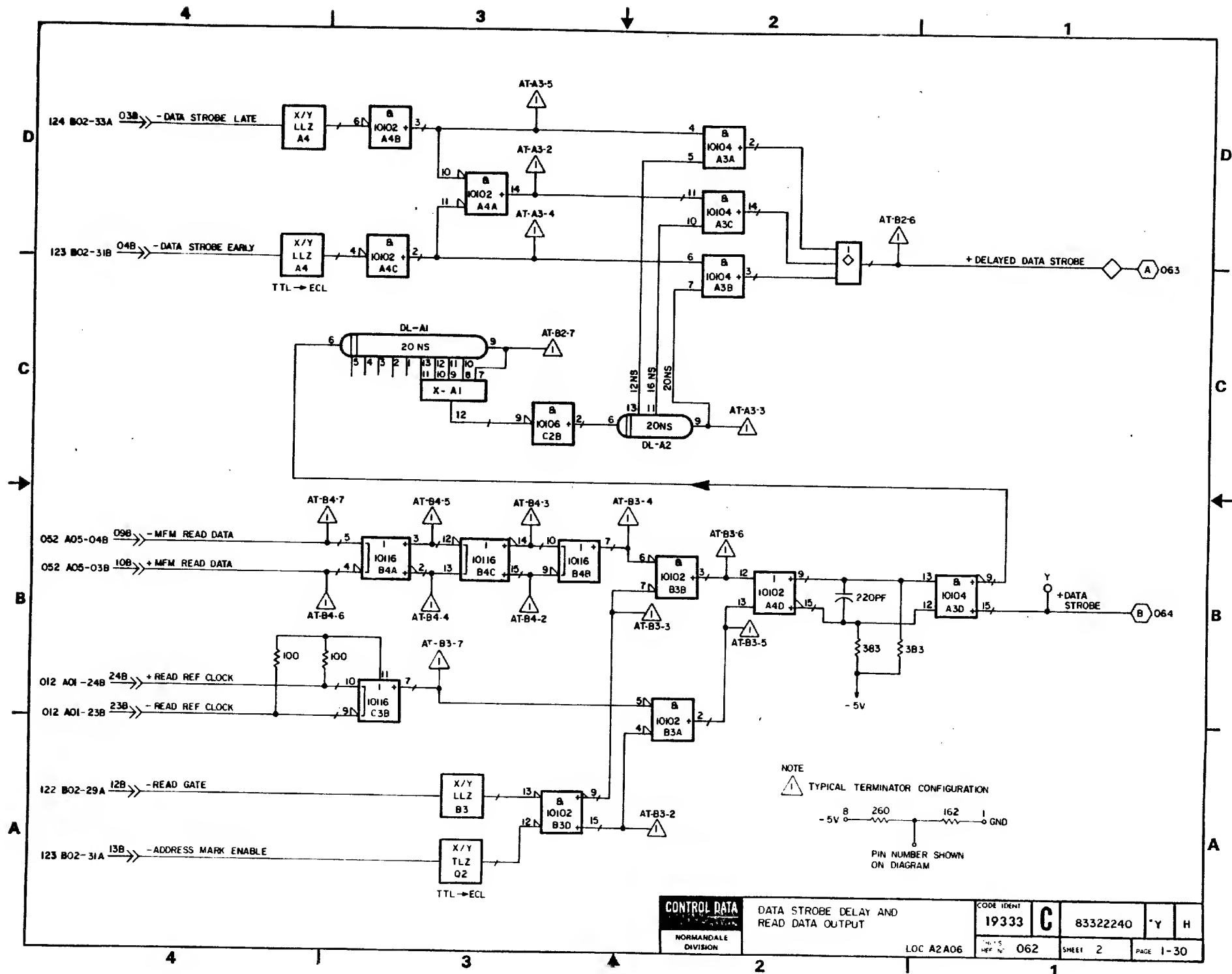


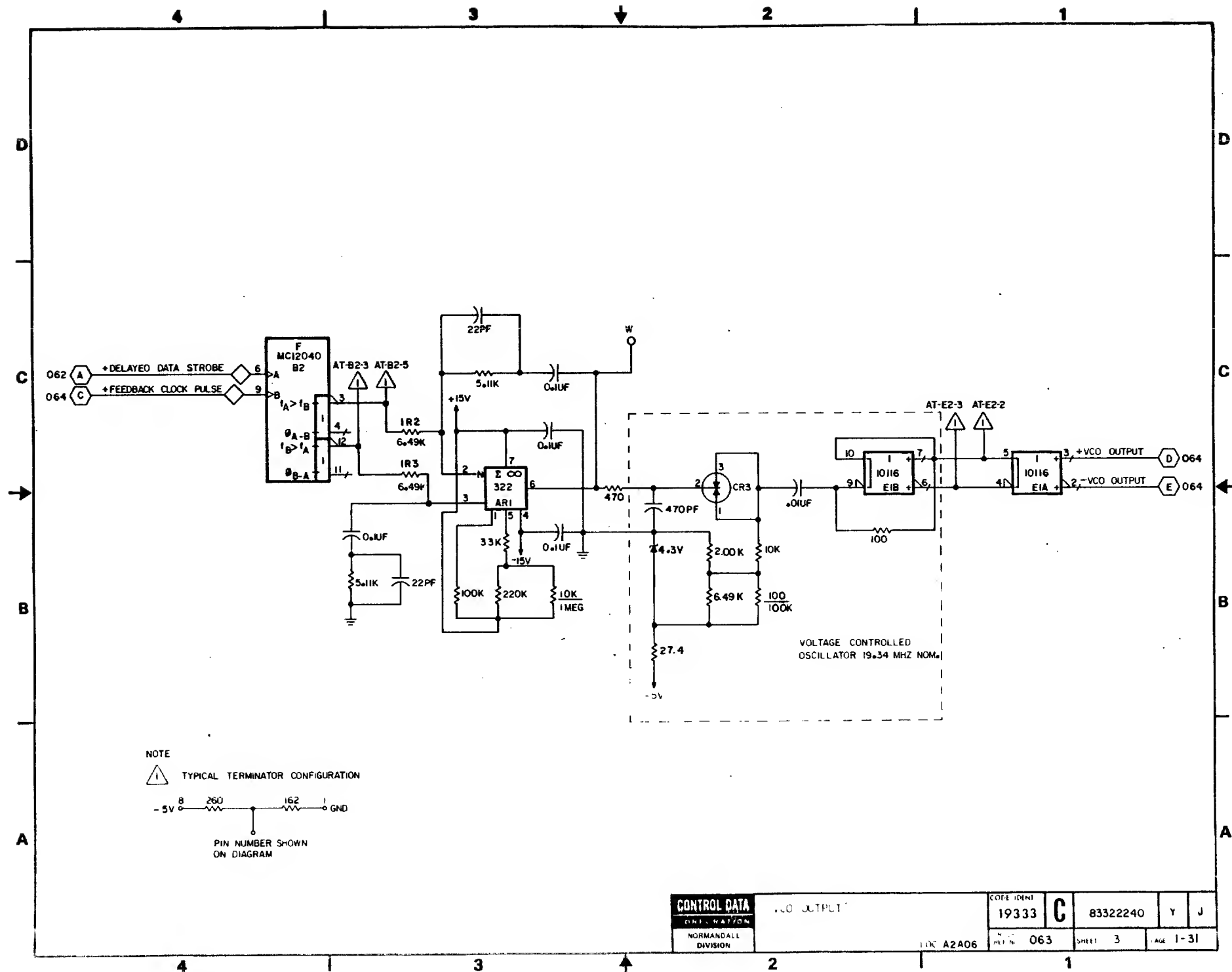
NAME	MANDERSON
DESIGN	
ENGINEER	
DATE	

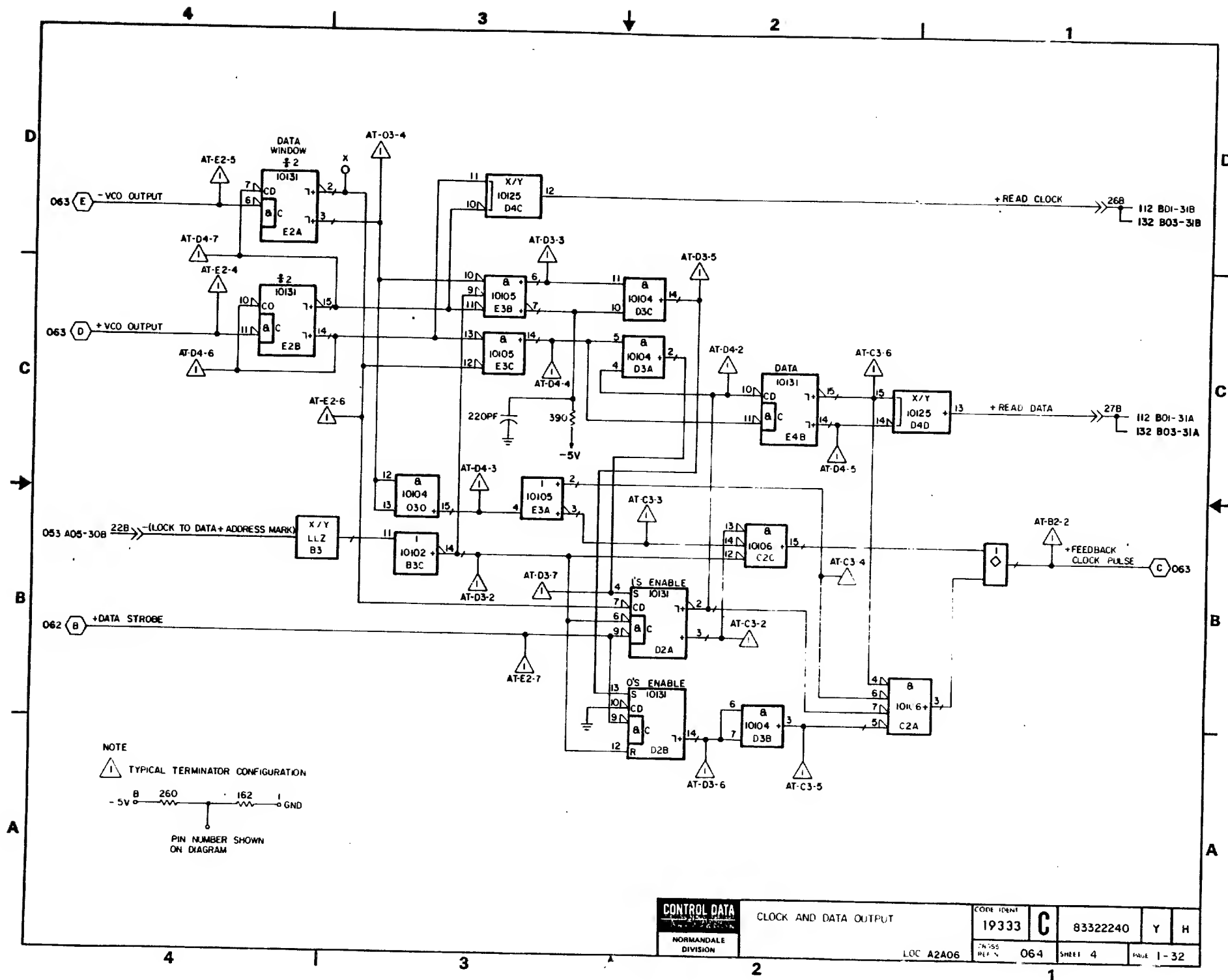
CONTROL DATA	
INDICATION	
NORMANDALE DIVISION	

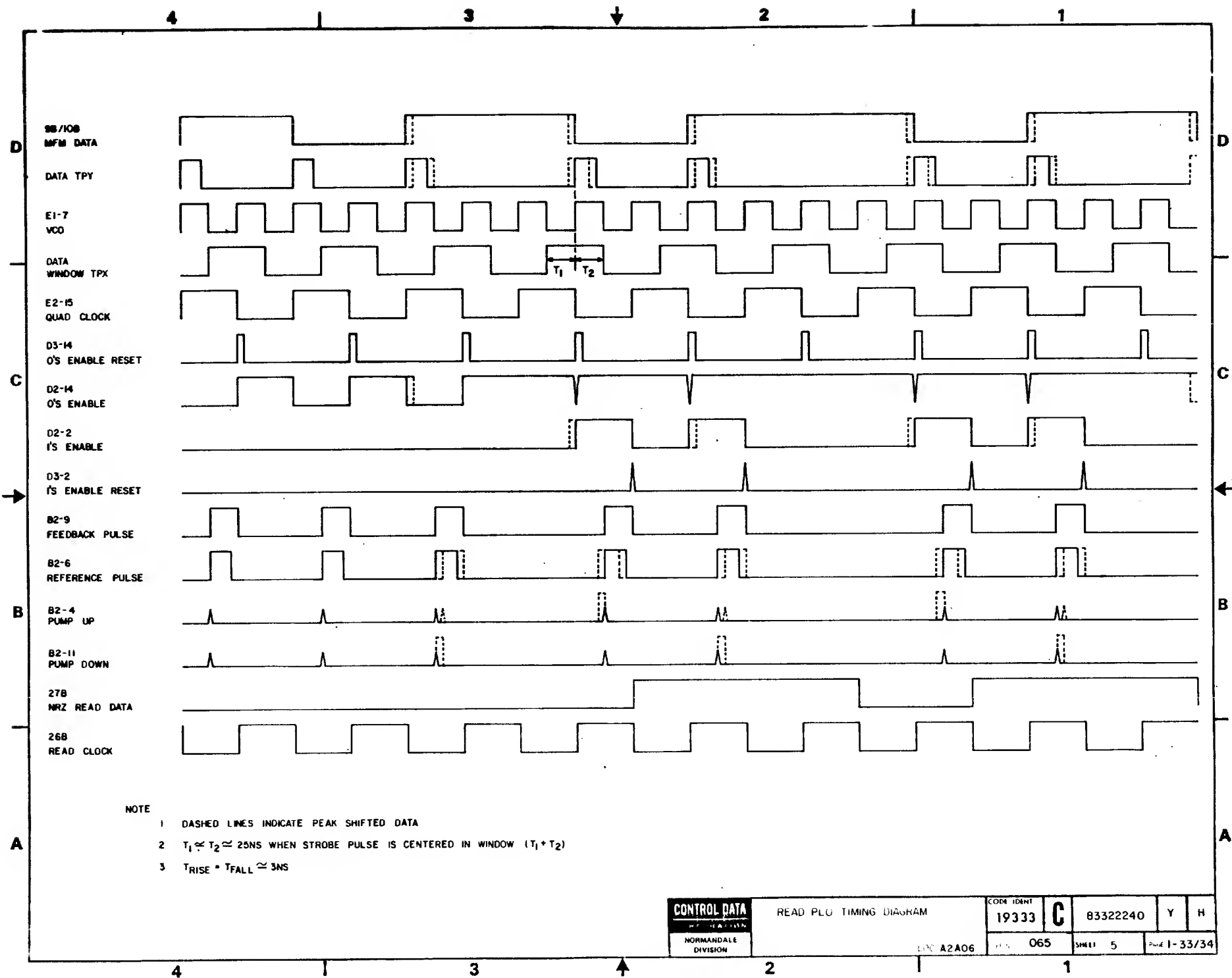
READ PLV	
DIAGRAMS	
TYPE BLTZ	

CODE IDENT	19333	C	83322240	Y	J
DATE	1-5	PAVE	1-29		









CONTROL DATA
CORPORATION
NORMANDALE
DIVISION

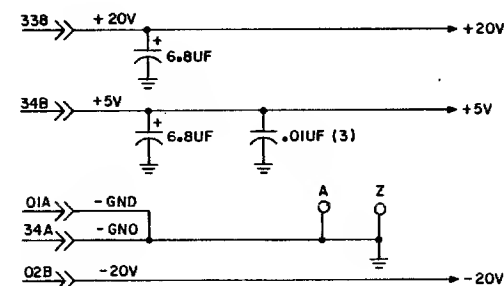
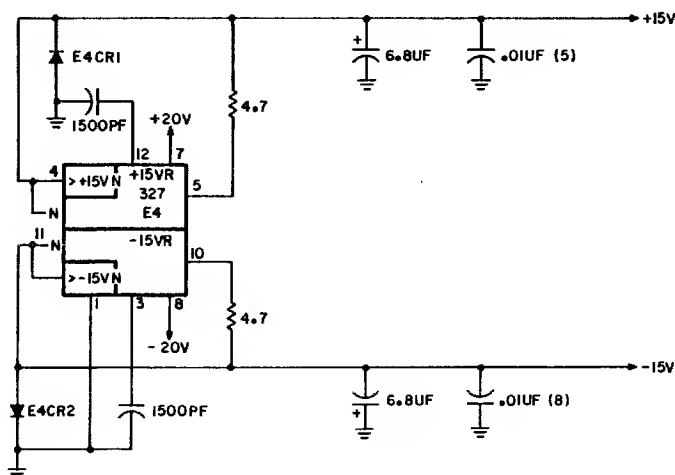
READ PLO TIMING DIAGRAM

CODE IDENT	19333	C	83322240	Y	H
REV	065	SHEET	5	PAGE 1-33/34	

ENC A2A06

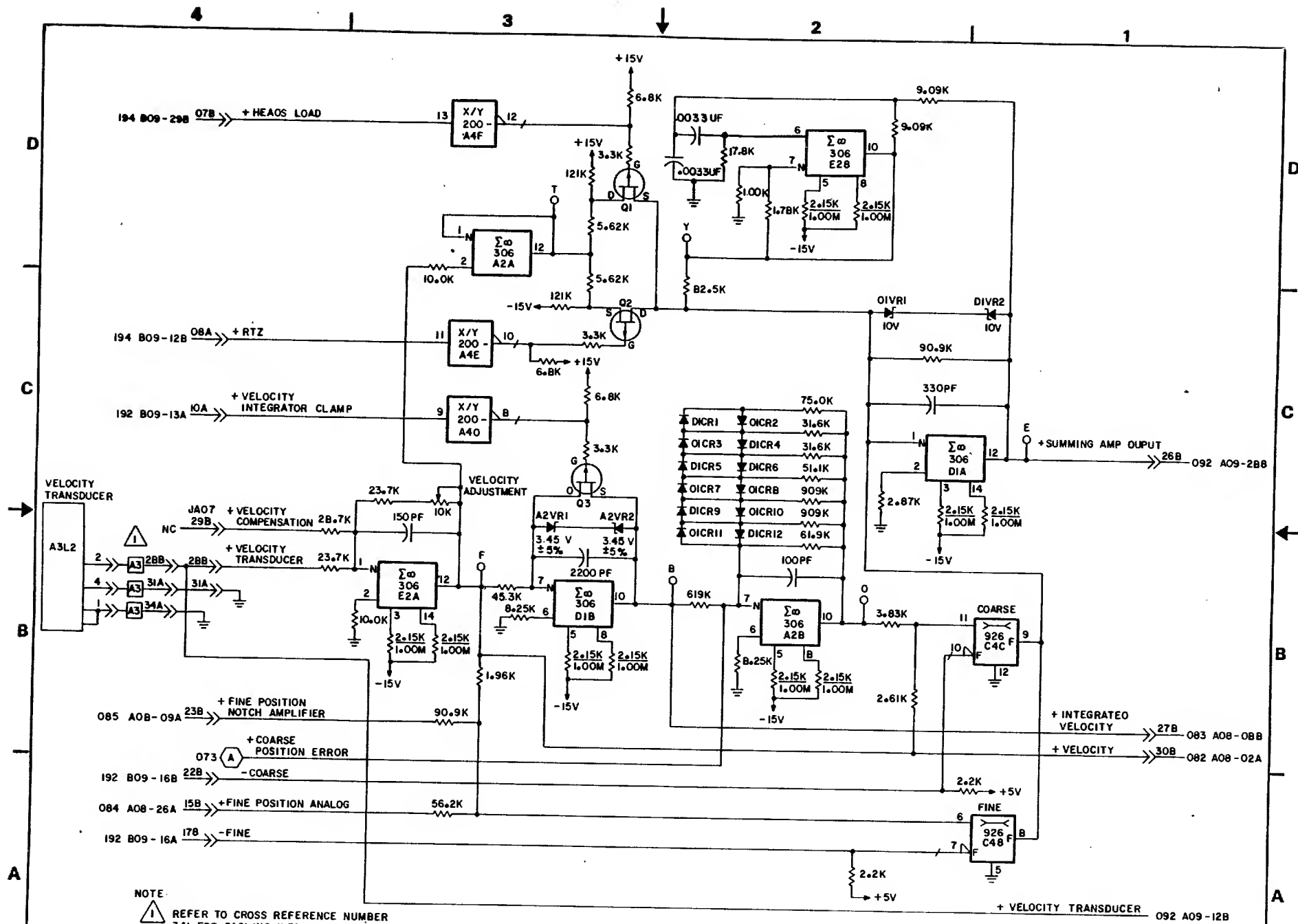
REVISION STATUS OF SHEETS																			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A	A	A																	
B	A	B																	
C	C	C																	
D	D	D																	
E	D	E																	
F	F	E																	
G	G	E																	
H	H	E																	
J	J	E																	
K	K	H																	
L																			
M	M	M																	
N	N																		

REVISIONS					
REV.	ECO.	DESCRIPTION	DNFT.	DATE	CHK'D
A	PE23000	RELEASED	GR		
B	PE48296	CORRECT DIAGRAMS	WEB		
C	PE48402	CORR DIA			
D	PE48523	CORR DIA	DM	7-26-77	
E	PE48675	ERR CORR	DM	1-25-78	
F	PE55792	CLARIFY DIAGRAM	AAD	6-15-78	
G	PE60401	CHG DDD	MF	7-13-81	
H	DJ00038	DELETE TEST POINTS	MJ	1-11-82 (1/)	
J	DJ00076	CHG RESISTOR	MJ	1-11-82 (1/)	
K	DJ00075	PREVENT RINGING SERVO	MJ	1-11-82 (1/)	
L	DJ00074	FILTER FREQ CHG	MJ	5-25-82	
M	DJ22000	XFER FROM PE	MJ	5-25-82	
N	DJ00354	NLQV YIELD CHG	MJ	5-25-83	



THIS SET USED FOR NLQV REV D & BELOW (BK5XX-9762)

DRAWN	G. RABINE	DATE	5/26/77	CONTROL DATA	D/A FUNCTION GENERATOR	CODE IDENT	19333	C	83322240	Z	N
CHECKED				CH. 10410N	DIAGRAMS						
ENGINEER	G. RABINE	DATE	5/26/77	NORMANDALE	TYPE JLQV/NLQV	CROSS REF	071		SHEET 1 OF 3	PAGE 1-35	
APPROVED				DIVISION	LOC A2A07	REF	83214807				

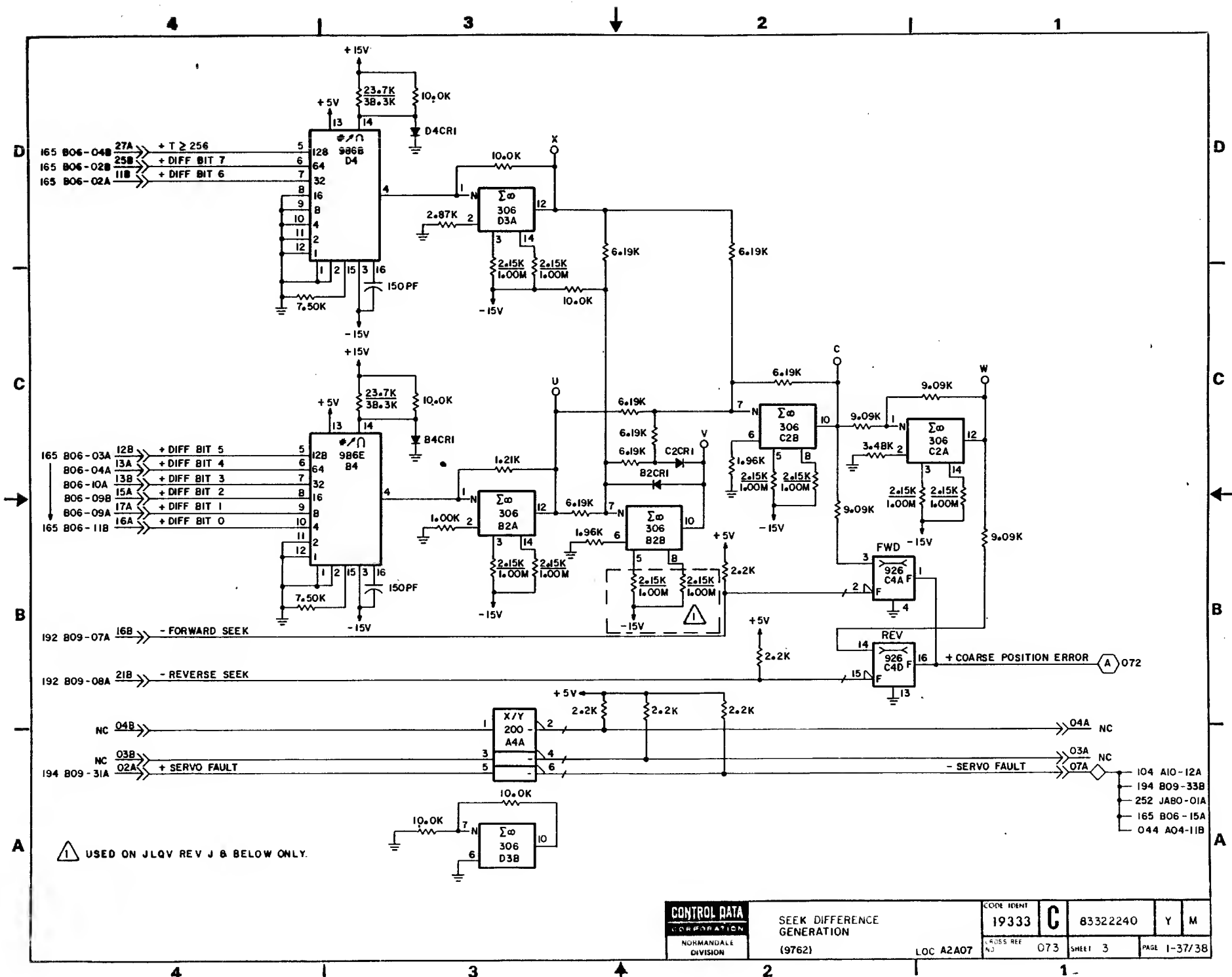


CONTROL DATA
CORPORATION
NORMANVILLE
DIVISION

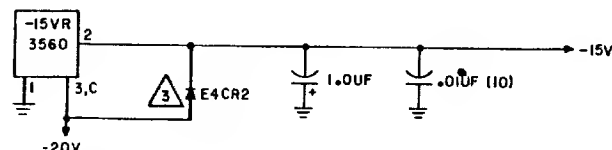
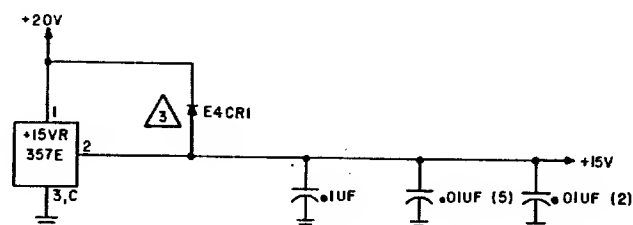
SUMMING AMP OUTPUT
AND VELOCITY
(9762)

LOC. A2A07

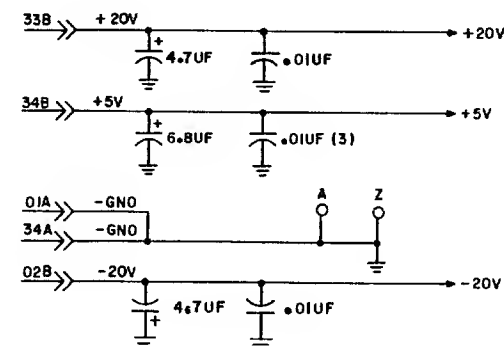
CODE IDENT	19333	C	83322240	Y	N
CROSS REF NO	072	SHEET 2	PAGE 1-36		



REVISIONS					
REV	ECO	DESCRIPTION	DRFT	DATE	CHK'D
A	PE23000	RELEASED	GR	10/17/74	YC
B	PE48296	ERR. CORN.	MA	11-17-76	YC
C	PE48402	ERROR CORRECTIONS	VB	1-5-77	YC
D	PE46523	ERROR CORRECTION	SB	4-6-77	YC
E	PE46675	ERROR CORRECTION	DM	7-6-77	YC
F	PE55792	CORRECT DIAG'S	TH	7-9-79	10/21
G	PE50401	CHG DIODE ON SLOV	AF	1-18-80	10/21
H	DJ00036	DELETE TEST POSTS	MF	7-7-81	D6-D
J	DJ00076	CHG RESISTOR JLOV	OLW	9-11-81	D6-D
K	DJ00075	FILTER FREQ CHG	OLM	9-11-81	D6-D
L	DJ00075A	TO ADD MIX00RF KIT PL, TO CORRECT PH'S, CHG RWK EFFECTIVITY, AND ADD LO'S.	OLM	9-11-81	D6-D
M	DJ22000	XFER FROM PE	OL	7-18-82	10/21
N	DJ00315	NLDV YIELD CHG	MF	7-23-82	D6-D
P	DJ00420	IMPROVE YIELD	KRB	11-1-82	10/21
R	DJ00734	CHG NLOV COMP AT			
	DJ22000A	FORMAT CHANGE	MR	1-29-83	



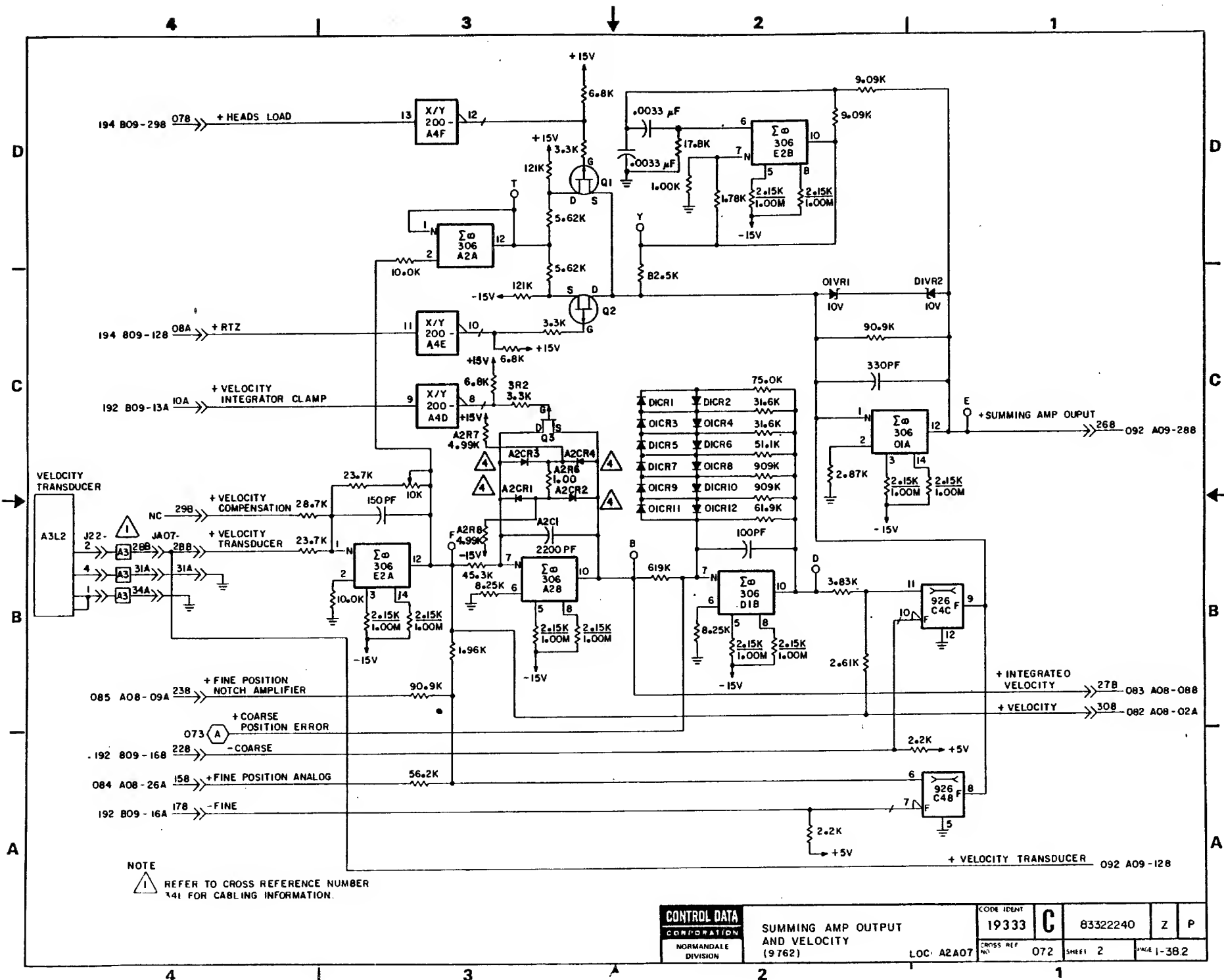
- 3 DIODE SILICON, 1N4001, 95637301.
4 DIODE SILICON, 24553500.



THIS SET USED FOR NLQV REV E & ABOVE BK5XX= 9762-E

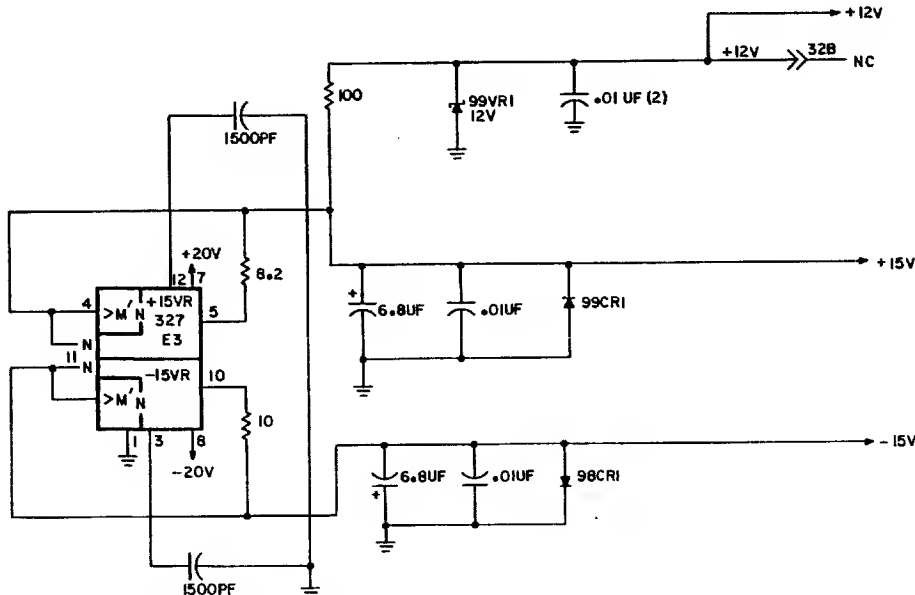
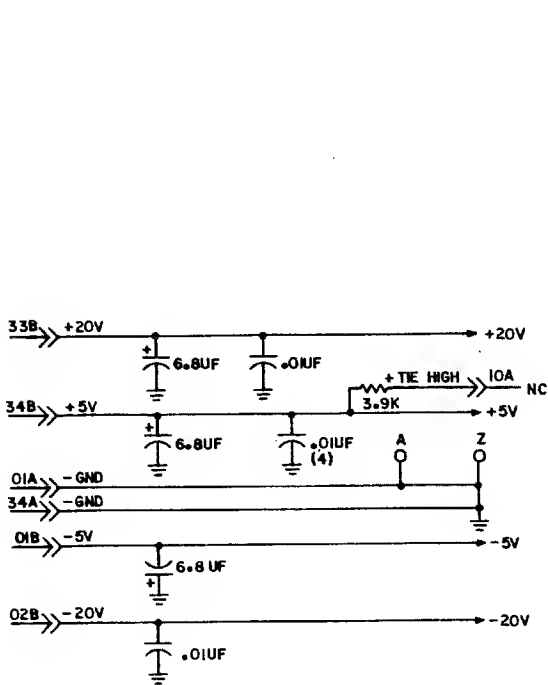
DRAWN	G. RABINE	DATE	11/1/74	CONTROL DATA	D/A FUNCTION GENERATOR	CODE IDENT	19333	C	83322240	AA	R
CHECKED				CORPORATION	DISK						
ENGINEER				TWIN CITIES							
APPROVED				DIVISION							

TYPE NLQV LOC A2A07 CROSS REF NO 071 SHEET 1 of 3 PAGE 1-38.1 REF 83214807



[illegible][illegible]

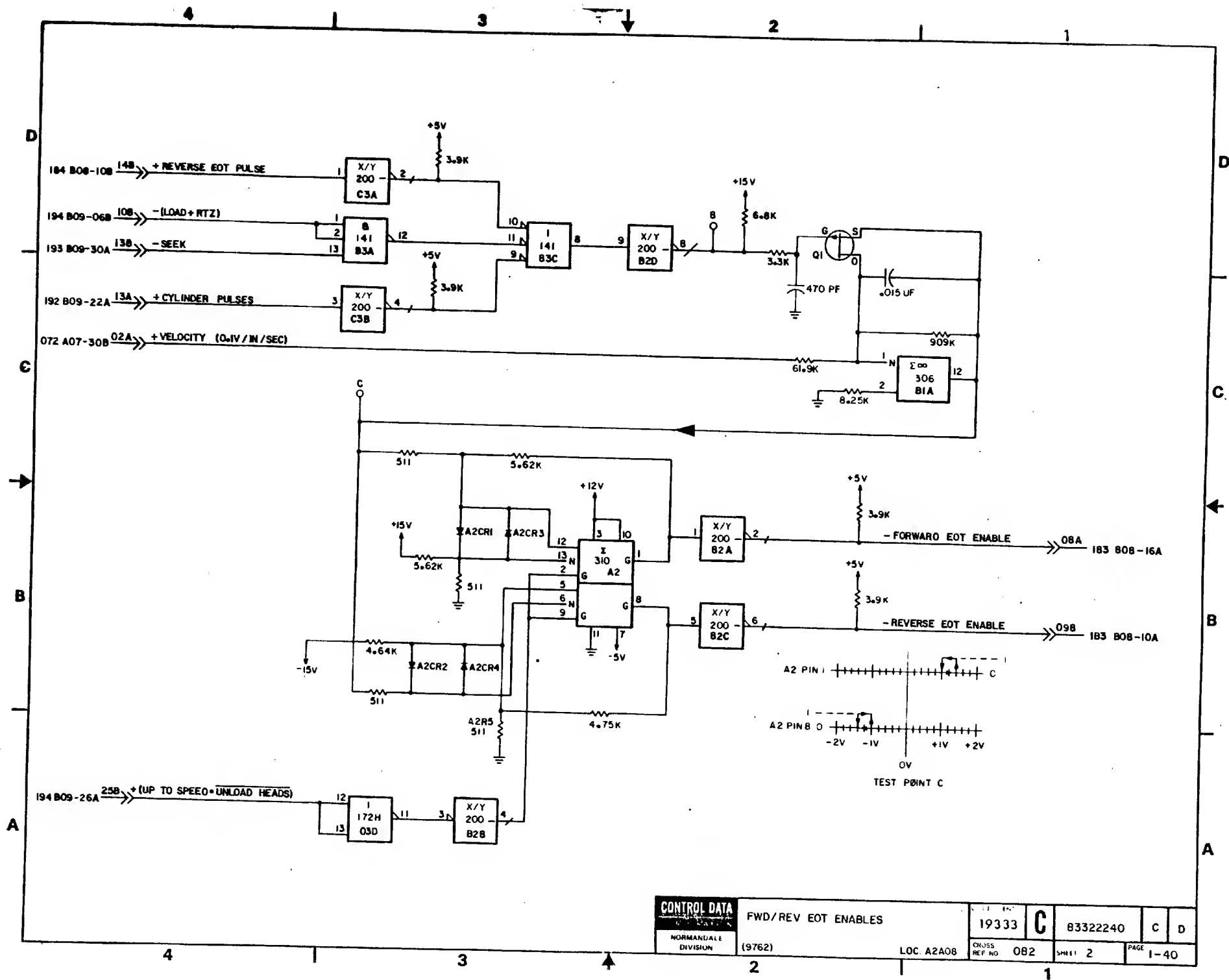
UNUSED LOGIC ELEMENT		
TYPE	LOCATION	OUTPUT PIN(S)
200	E1	2

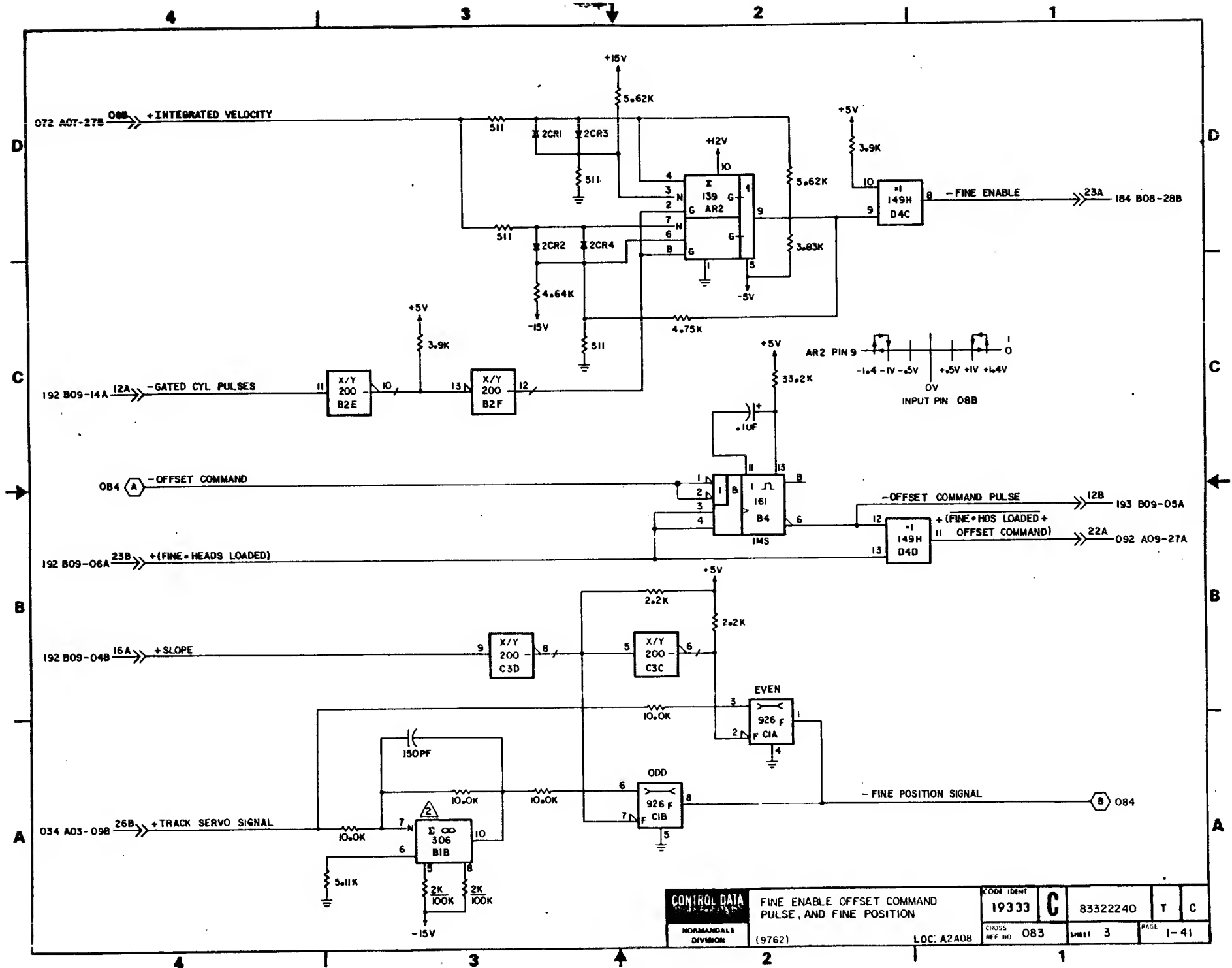


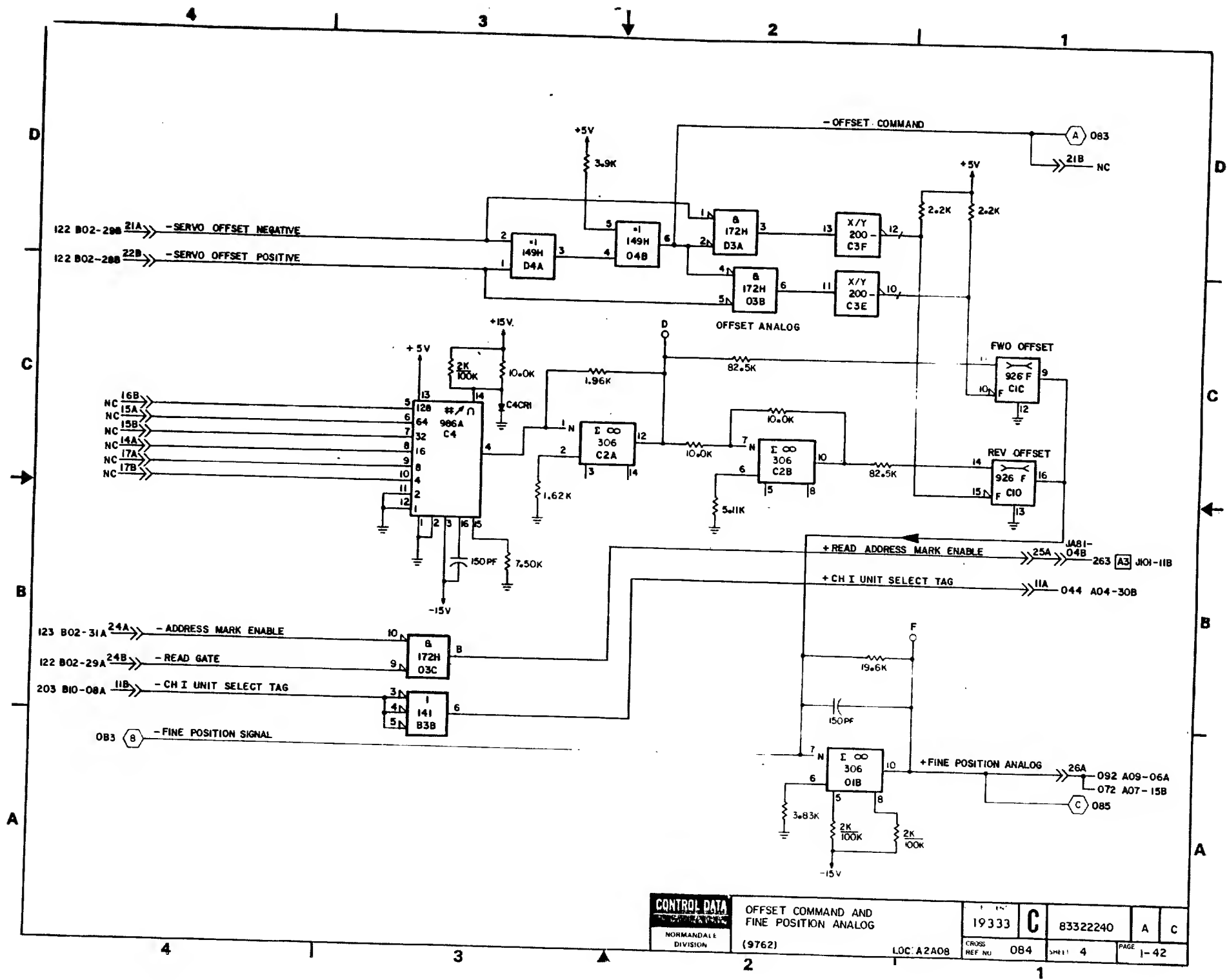
APPLICABLE TO BK5XX=9762. THIS SET USED FOR ELUV REV K & BELOW.

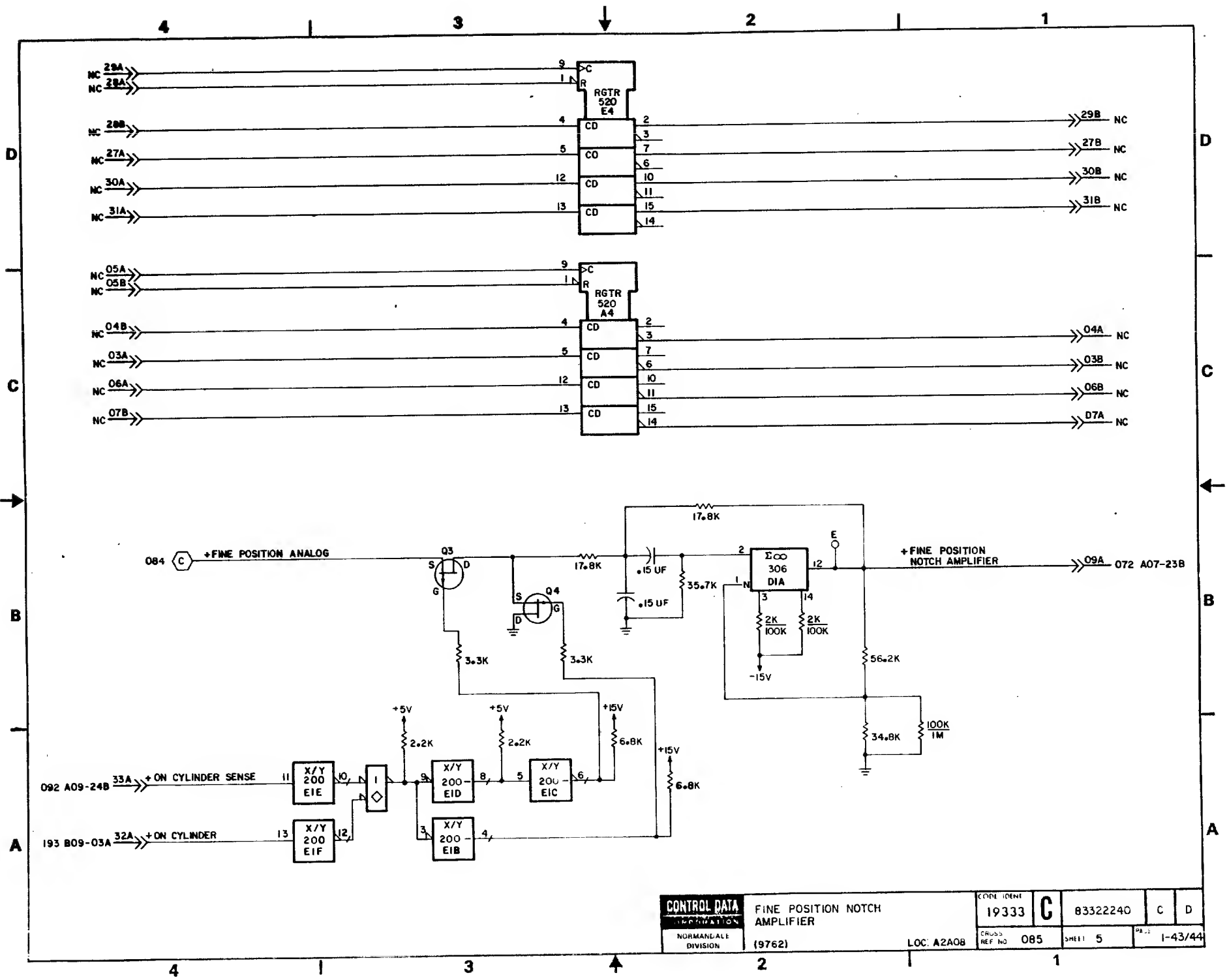
DRAWN	<i>[Signature]</i>	CONTROL DATA COMPANY, INC. NORMANDIE DIVISION	ACCESS CONTROL NO. 2 DIAGRAMS		CODE IDENT	19333	C	83322240	Y	D	
CHECKED											
ENGINEER	C. J. ...		TYPE ELUV		LOC A2A08	CROSS REF NO	081	SHEET	1 of 5	PAGE	1-39
APPROVED											

REF 83214808





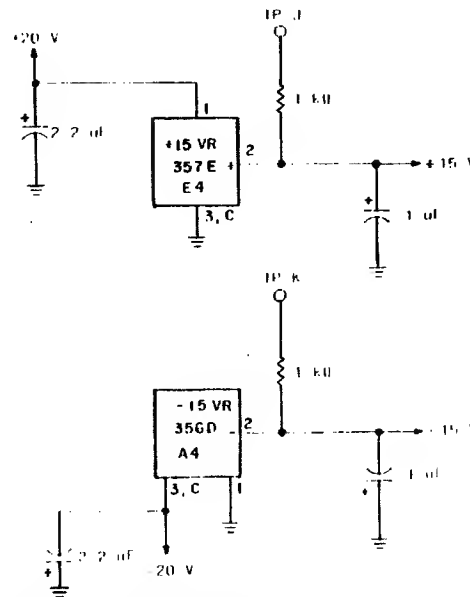
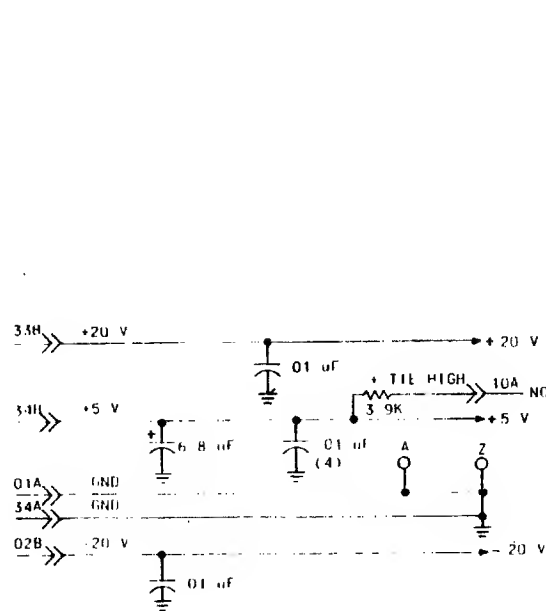




REVISION STATUS OF SHEETS																			
I	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A	A	A	A	A															
B	B			B															
C	C	C	C	C															
D	D			D															
E	E	E	E	E															
F	F	F	F	F															
G	G																		
H		H	H																

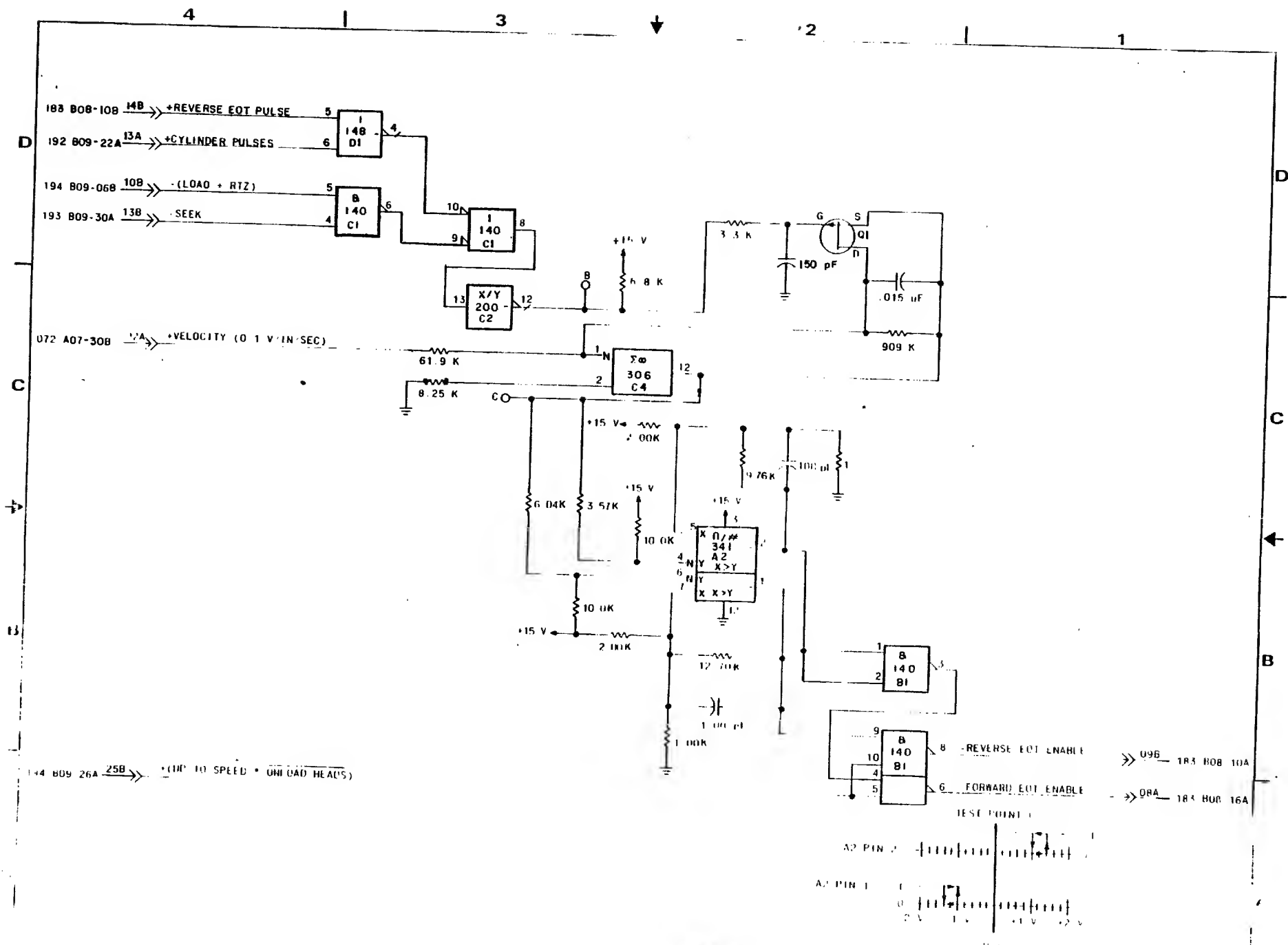
UNUSED LOGIC ELEMENTS		
TYPE	LOCATION	OUTPUT PIN(S)
200	E2	I2
149	D2	8

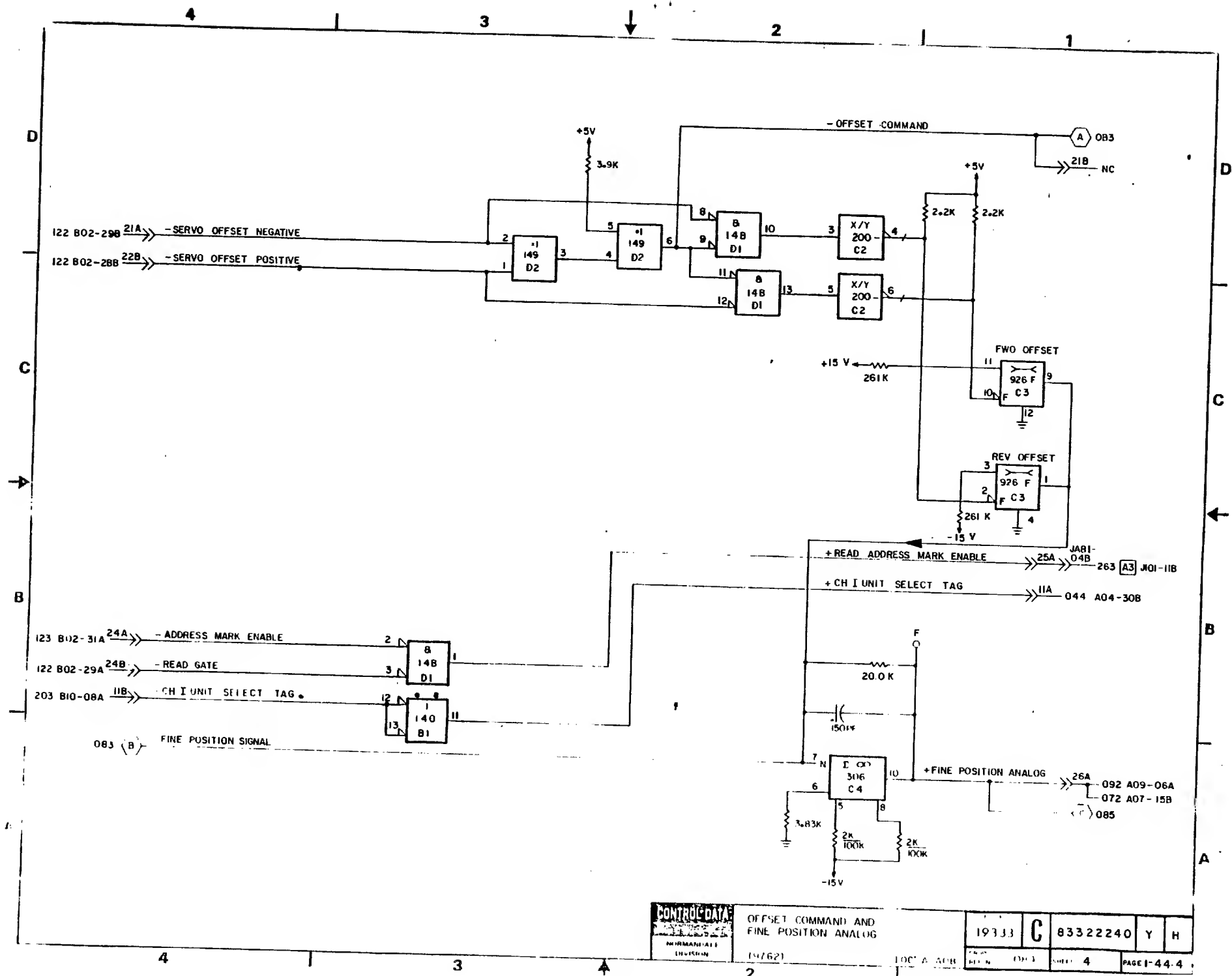
REVISIONS				
REV	ECO	DESCRIPTION	DWTR	DATE
A	PE23000	RELEASED	MA	10-1-76
B	PE48296	ERR CORR	MA	11-17-76
C	PE48402	ERROR CORRECTIONS	VG	1-5-77
D	PE48523	ERROR CORRECTION	SB	4-6-77
E	0J00184	CHG ELUV	MJ	1-8-82
F	0J28000	XFER FROM PE	SM	7-20-82
G	0J00349	CORRECT ELUV DOC	MJ	7-23-82
H	0J00456	CHG ELUV COMP AT	MJ	2-4-83



APPLICABLE TO BK5XX-9762. THIS SET USED FOR ELUV REV L & ABOVE.

1245	1245	1245	1245	1245	1245	1245	1245	1245	1245	1245	1245	1245	1245	1245	1245	1245	1245	1245	1245
1245	1245	1245	1245	1245	1245	1245	1245	1245	1245	1245	1245	1245	1245	1245	1245	1245	1245	1245	1245
1245	1245	1245	1245	1245	1245	1245	1245	1245	1245	1245	1245	1245	1245	1245	1245	1245	1245	1245	1245
1245	1245	1245	1245	1245	1245	1245	1245	1245	1245	1245	1245	1245	1245	1245	1245	1245	1245	1245	1245





CONTROL DATA
INSTRUMENTS
DIVISION

OFFSET COMMAND AND
FINE POSITION ANALOG

19762

LOC A 308

19333	C	83322240	Y	H
REV	OP	4	PAGE 1-44-4	

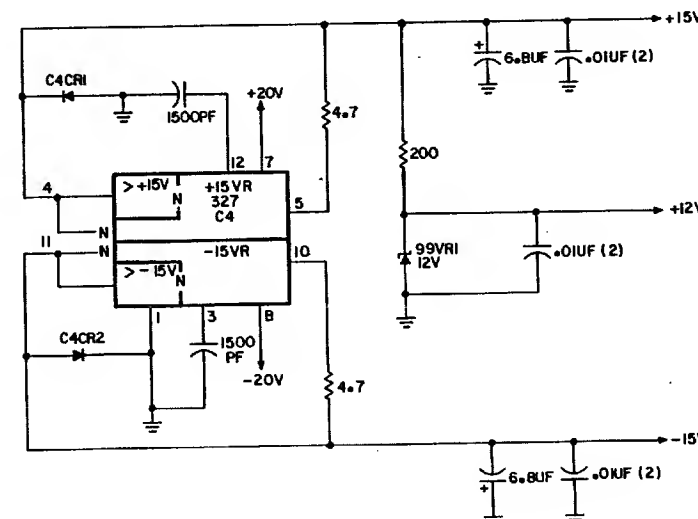
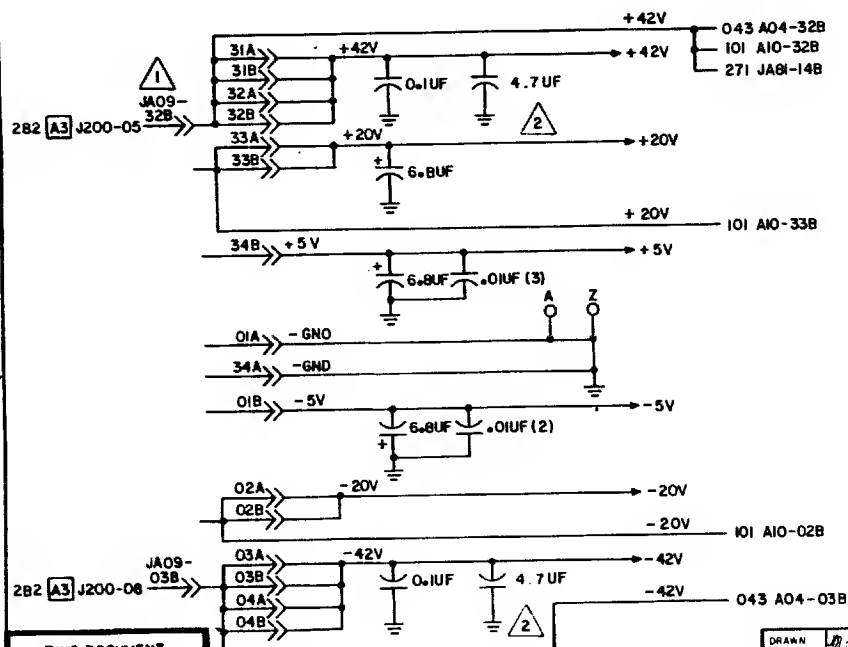
[illegible]

TYPE	LOCATION	OUTPUT PIN (S)
140	02	3,6
200	E1	6,12
306	A1	12

[illegible]

1 REFER TO CROSS REFERENCE NUMBER 341
FOR CABLING INFORMATION

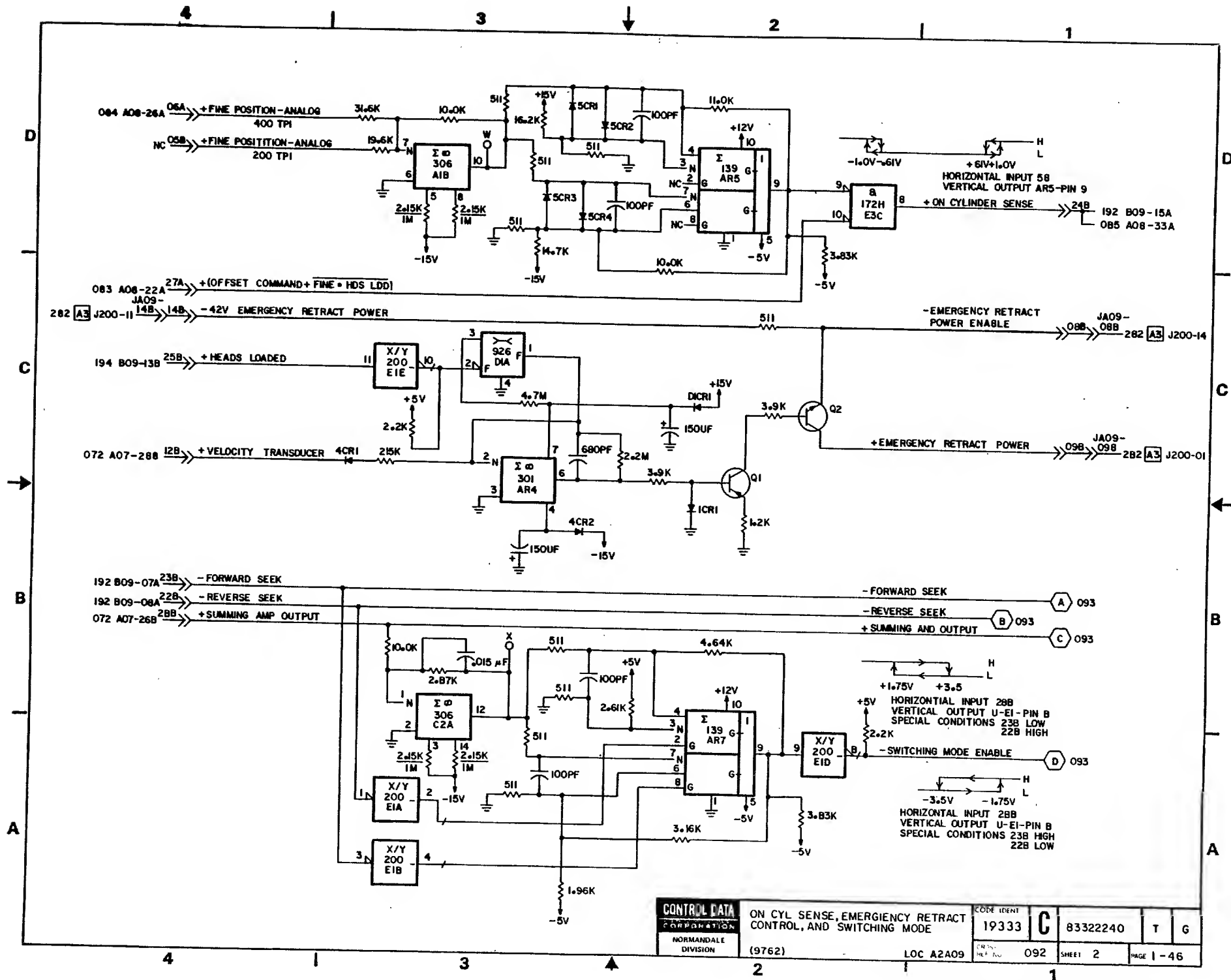
2 MOD D & ABV ONLY



THIS SET USED FOR FLVP REV W & BELOW (BK5XX=9762)

DRAWN	W. J. Jones	CONTROL DATA CORPORATION TWIN CITY DISK DIVISION TYPE FLPV	SWITCHING MODE CONTROL DIAGRAMS		CODE IDENT	C	83322240	Z	H	
CHECKED					19333					
ENGINEER	W. J. Jones				TRANS REF	091	SHEET	1 of 3	PAGE	1-45
APPROVED					LOC. A2A09					

THIS DOCUMENT
TRANSFERRED TO
TCD DIVISION
DATE: 7/27/84

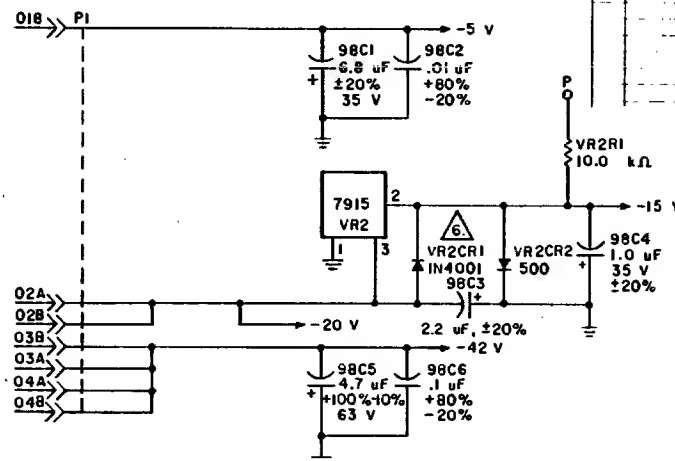
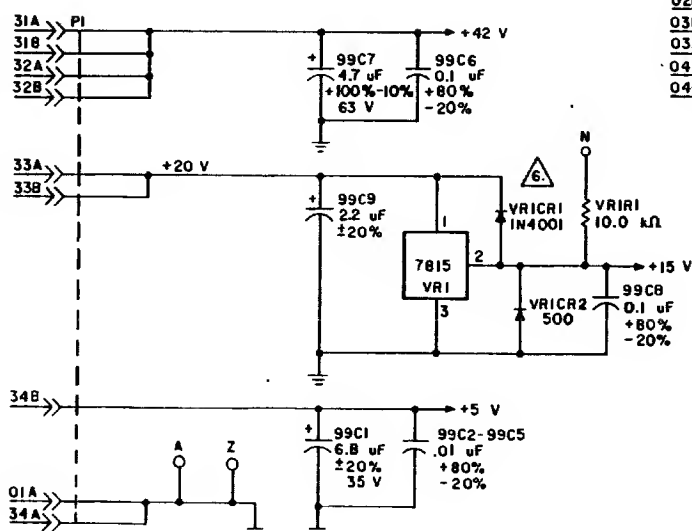




REVISION STATUS OF SHEETS																			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A	A	A																	
B	A	A																	
C	C	C																	
D	D	D																	
E	D	D																	
F	D	D																	
G	G	G																	
H	H	H																	
J	J	J																	

UNUSED LOGIC ELEMENTS		
ELEMENT	LOCATION	OUTPUT (PINS)
200	U-E30	8

REVISIONS				
REV	ECO	DESCRIPTION	DRFT	DATE
J	0423200 0400999 042000A	RELEASED REVISED & REDRAWN SEE M/F FOR REV HISTORY FORMAT CHG	M P	11-10-85



NOTES:

1. UNLESS OTHERWISE SPECIFIED: ALL 14 PIN IC'S HAVE PIN 7 CONNECTED TO GND AND PIN 14 CONNECTED TO +5 V.

TYPE 306 IC'S HAVE PIN 4 CONNECTED TO -15 V AND PINS 9 AND 13 CONNECTED TO +15 V.

ALL DDD'S SILICON 24553500.

ALL TRANSISTORS MM5005, 50222400.

- 2. TRANSISTOR, MM3007, 50222502.
- 3. TRANSISTOR, MM3005, 50222500.
- 4. TRANSISTOR, MM5007, 50222402.
- 5. TEST SELECT RESISTORS TO BE SELECTED FROM DRAWING 94357500 AND INSERTED DURING CARD TEST PER RECOMMENDED TEST PROCEDURE.
- 6. DIODE, SILICON, 95637301.
- 7. FET P-CHANNEL, P1167, 50218200.

THIS SET USED FOR FLVP REV Y & ABV

DESIGN	K. BARTSCH
DATE	
BY	
CHK'D	

MAGNETIC PERIPHERALS INC.
A DIVISION OF
GEORGE EASTMAN COMPANY

SCHEMATIC DIAGRAM
SWITCHING MODE CONTROL

TYPE FLVP

LOC 42A09

TWIN CITIES
DISK
DIVISION

C

83322240

Z

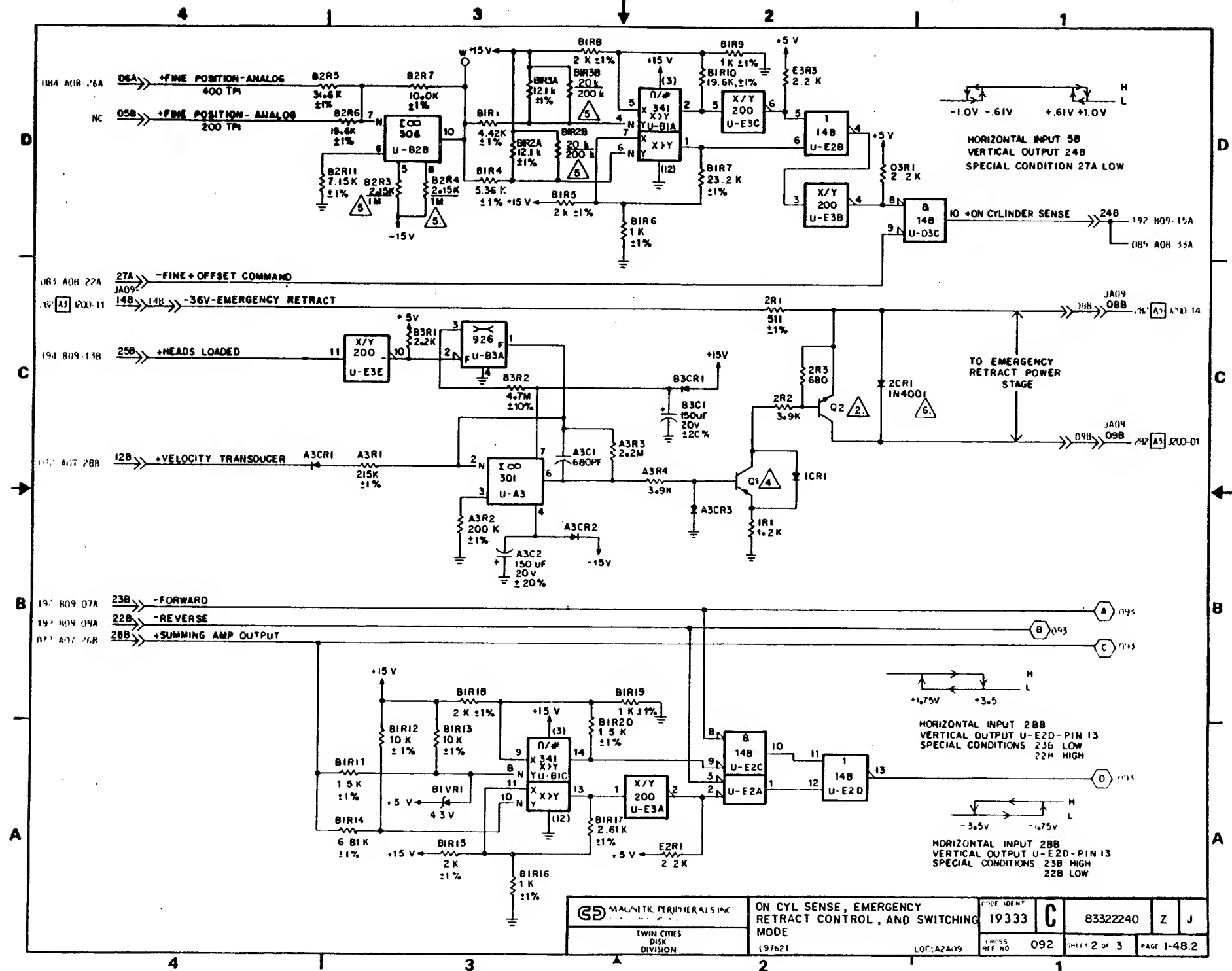
J

19333

091

1-48.1


1 REF 83214809

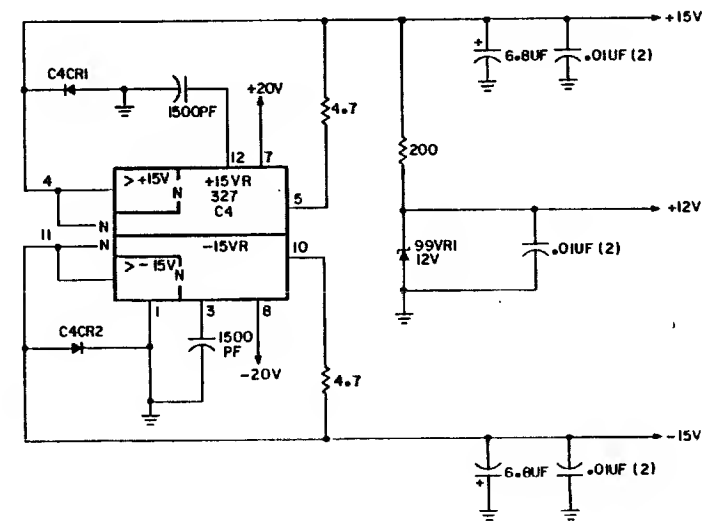
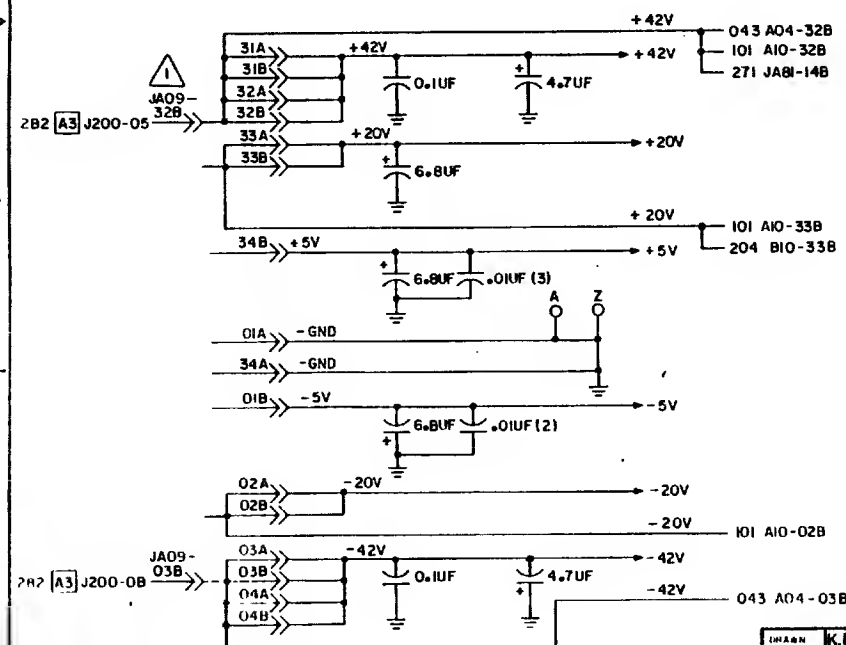


REVISION STATUS OF SHEETS																			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A	A	A																	

REVISIONS					
REV	ECO	DESCRIPTION	DRFT	DATE	CHK'D
A	DJ00399	VDE NEW CREATE	KKB	11-16-82	DSD

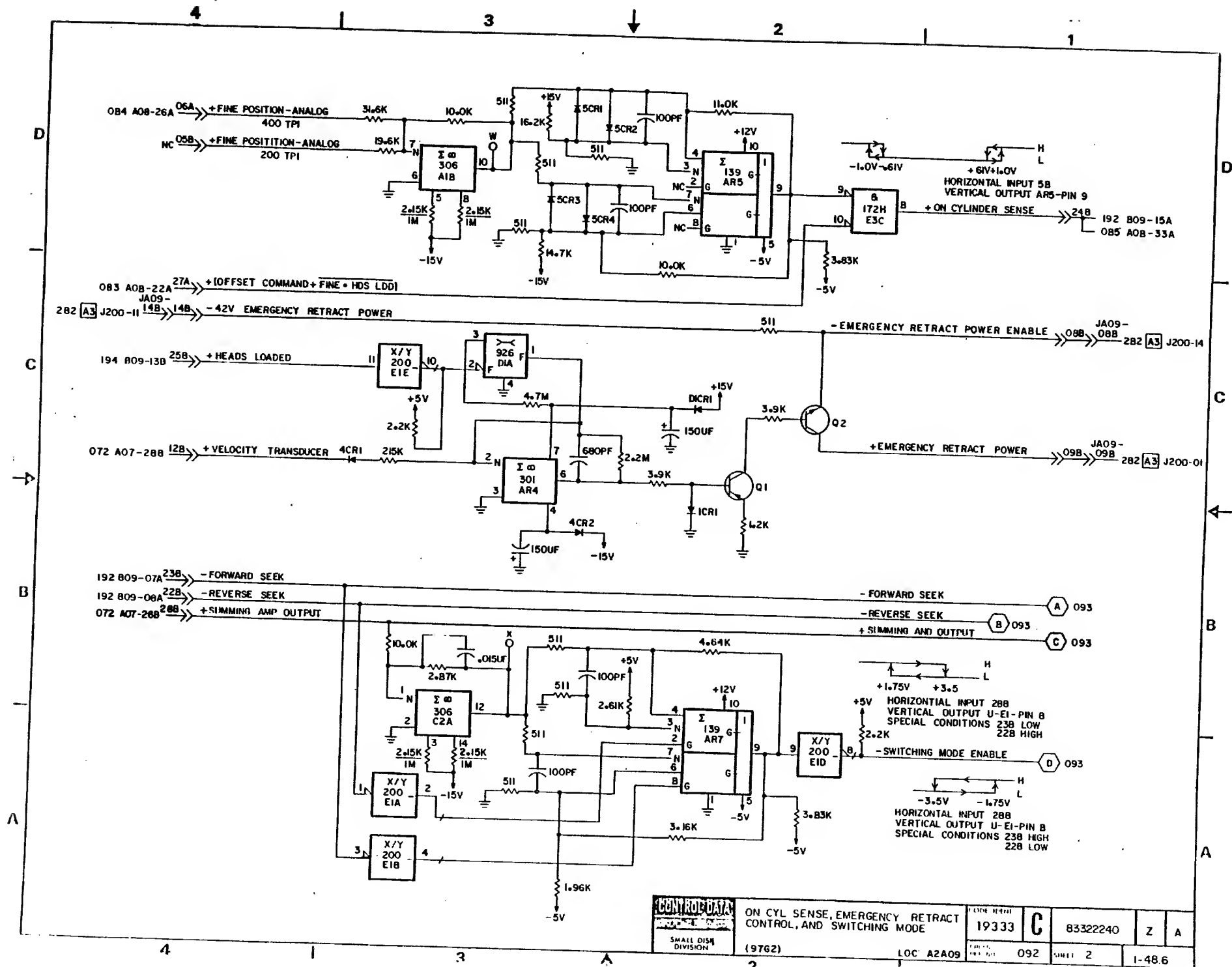
UNUSED LOGIC ELEMENTS		
TYPE	LOCATION	OUTPUT PIN (S)
140	D2	3,6
200	E1	6,12
306	A1	12

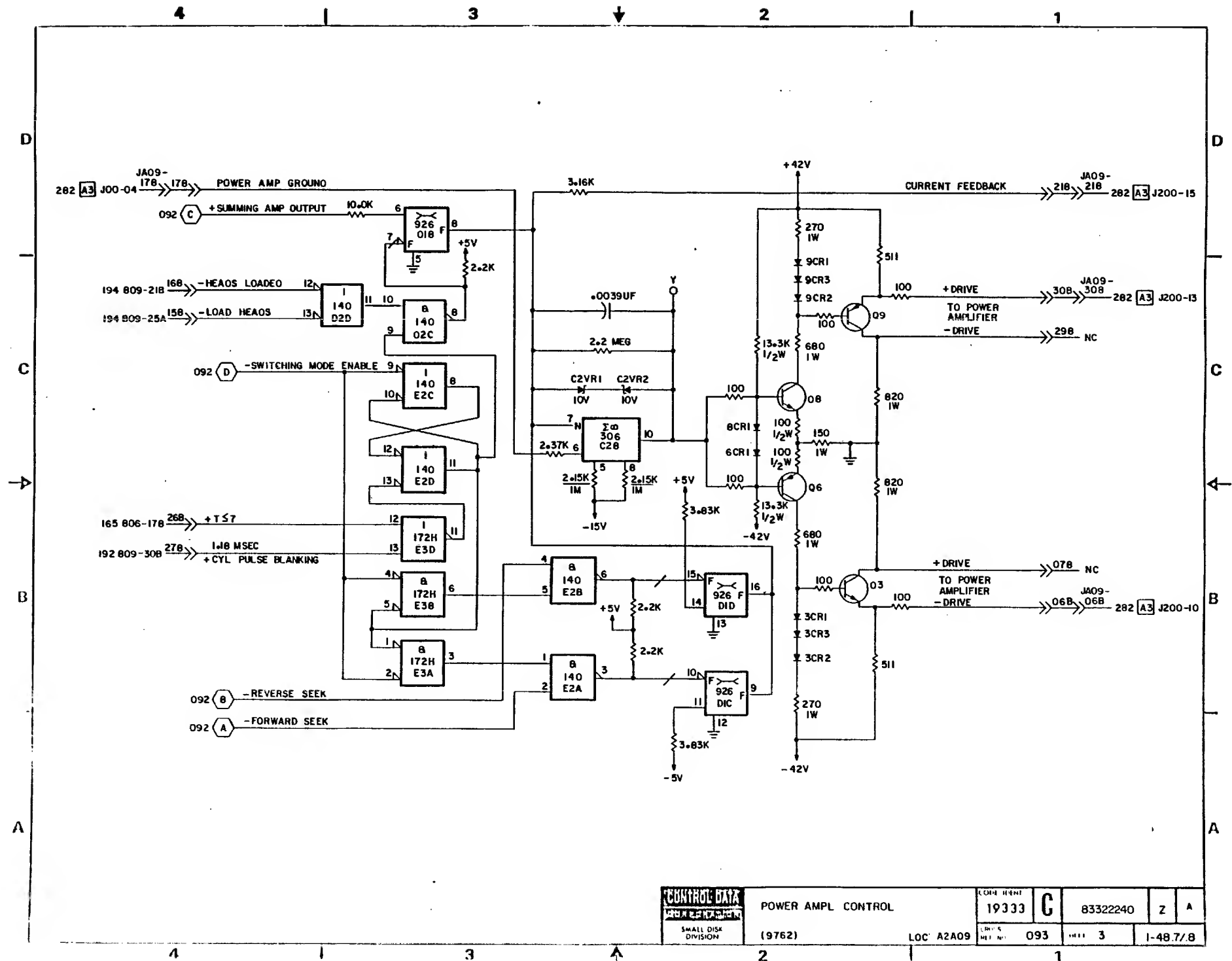
NOTE:
 REFER TO CROSS REFERENCE NUMBER 341 FOR CABLING INFORMATION



THIS SET USED FOR BK5C6D (BK5XX=9762)

DESIGN	K.BARTSCH	11-16-82	CONTROL DATA	SWITCHING MODE CONTROL	CODE IDENT	19333	C	83322240	Z	A
CHECKED				DIAGRAMS	TRANS REF	091		1-3		
ENGINEER				TYPE FLPV	LOC	A2A09				
APPROVED				SMALL DISK DIVISION	REF	83214867				





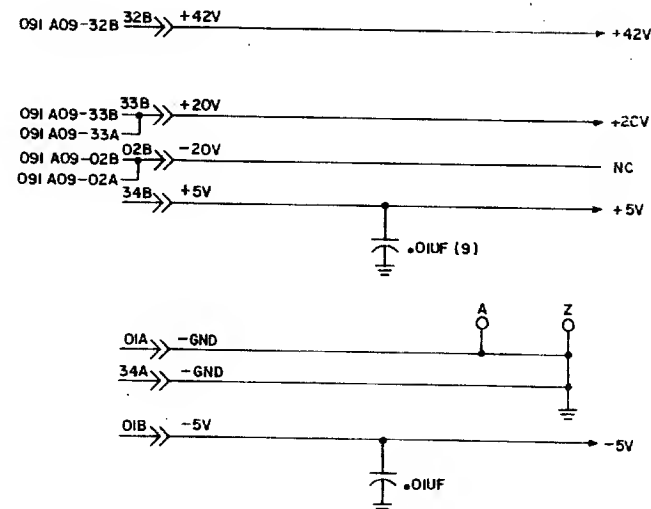
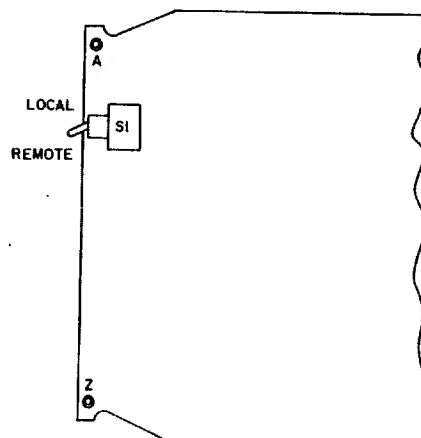
REVISION STATUS OF SHEETS																				
I	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
A	A	A	A																	
B	B	B	B																	
C	C	C	C																	
D	D	D	D																	
E	E	E	D																	
F	F	F	F																	
G	G	G	G																	
H	H	H	H																	
J	J	J	J																	
K	K	K	K																	
L	K	L	K																	
M	K	M	K																	
N	K	N	K																	
P	P	N	K																	

REVISIONS					
REV	ECD	DESCRIPTION	DRFT	DATE	CHK'D
A	PE23000	RELEASED			
B	PE48296	CORRECT DIAGRAMS			
C	PE48402	CORRECT DIAGRAMS			
D	PE48445	IMPROVE CIRCUIT CARD			
E	PE48523	CORRECT DIAGRAMS			
F	PE48652	IMPROVE CARD YIELD			
G	PE48675	ERR CORR			
H	PE48932	ADD DIODE TO +20 PWR			
J	PE55377	IMPROVE CARD YIELD			
K	PE55370	ERROR CORRECTION			
L	PE55865	ERROR CORRECTION			
M	PE55854	DOWN GRADE 80 MB TO 40 MB			
N	PE55928	CHG RES VALUES	MF	11-4-80	
P	PE60016	ERRDR CORR	MF	11-4-80	

UNUSED LOGIC ELEMENTS

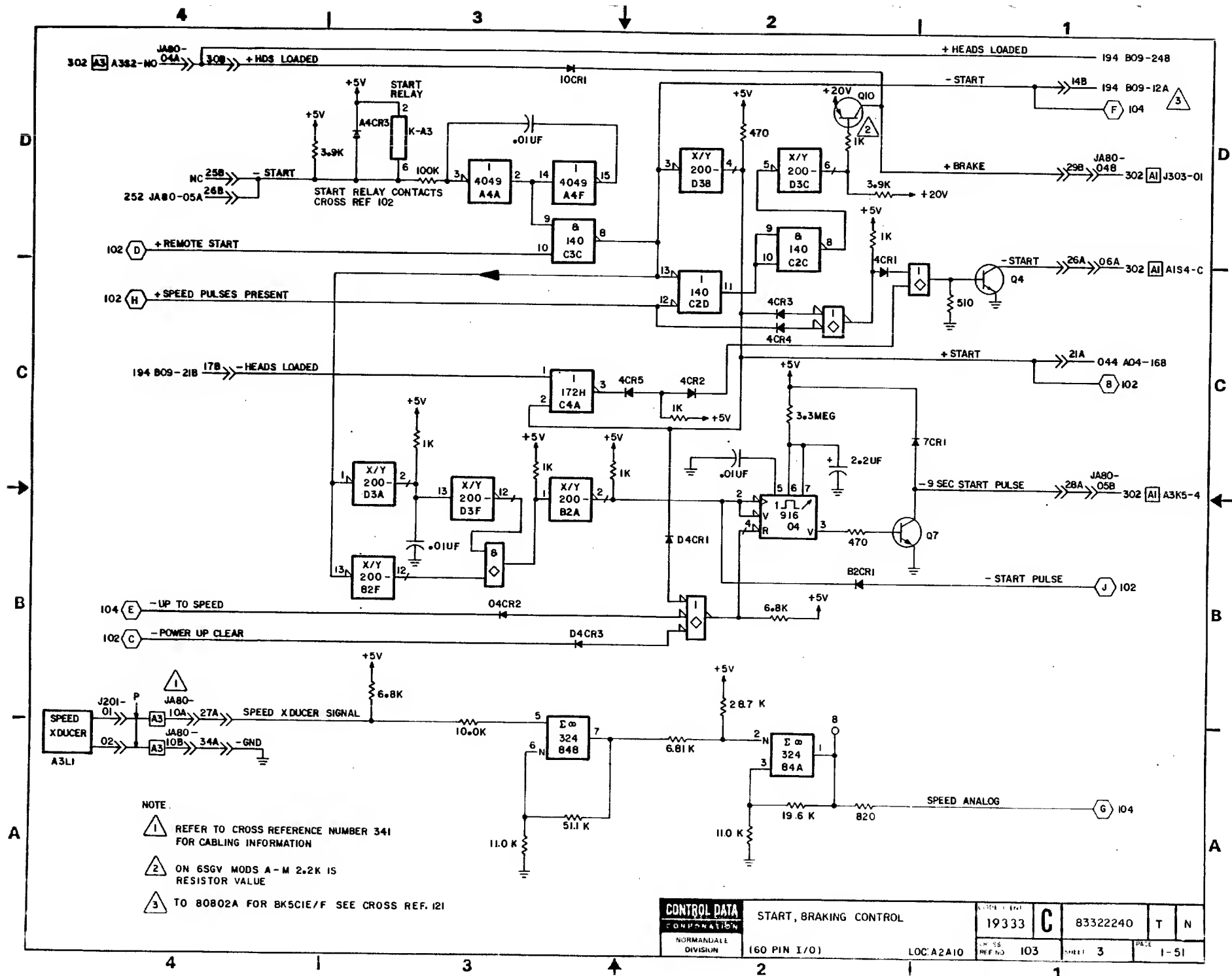
ELEMENT TYPE	LOCATION	OUTPUT PIN(S)
200	D3D	8

LOCAL / REMOTE SWITCH
ON CARD EDGE



THIS SET USED FOR 6SGV REV U & BLW. APPLICABLE TO 60 PIN I/O.

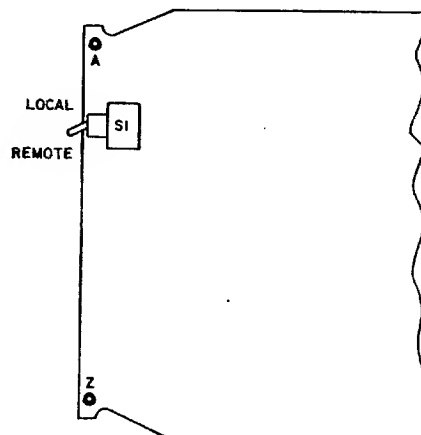
DRAWN CHECKED ENGINEER APPROVED	CONTROL DATA CORPORATION NORMANDALE DIVISION	INTERLOCKS AND SPEED DETECTOR DIAGRAMS TYPE 6SGV	CODE IDENT 19333 C	83322240	U P
100 A2410		101		1-4	PAGE 1-49



REVISION STATUS OF SHEETS

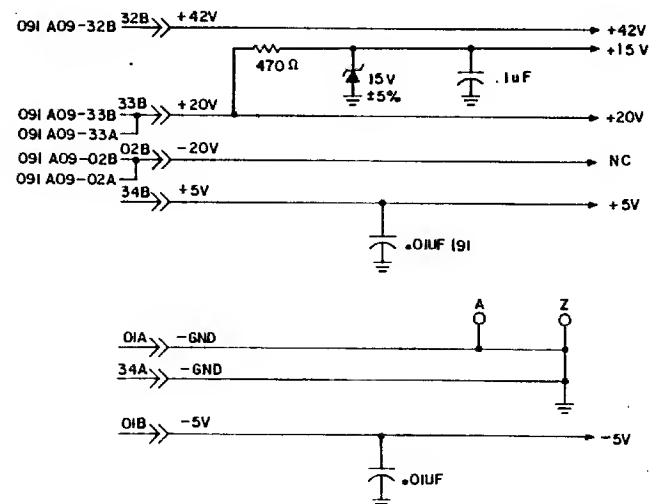
1	2	3	4					1	2	3	4				
A	A	A	A					W	W	W	W				
B	B	B	B					Y	Y						
C	C	C	C					AA	AA						
D	D	D	D					AB	AB						
E	E	E	E					AC	AC						
F	F	F	F												
G	G	G	G												
H	H	H	H												
J	J	J	J												
K	K	K	K												
L	K	L	K												
M	K	M	K												
N	K	N	K												
P	P	N	K												
R	R	R	R												
S	S	S	S												
T	T	S	S												
U	U														
V	V	V													

LOCAL / REMOTE SWITCH
ON CARD EDGE



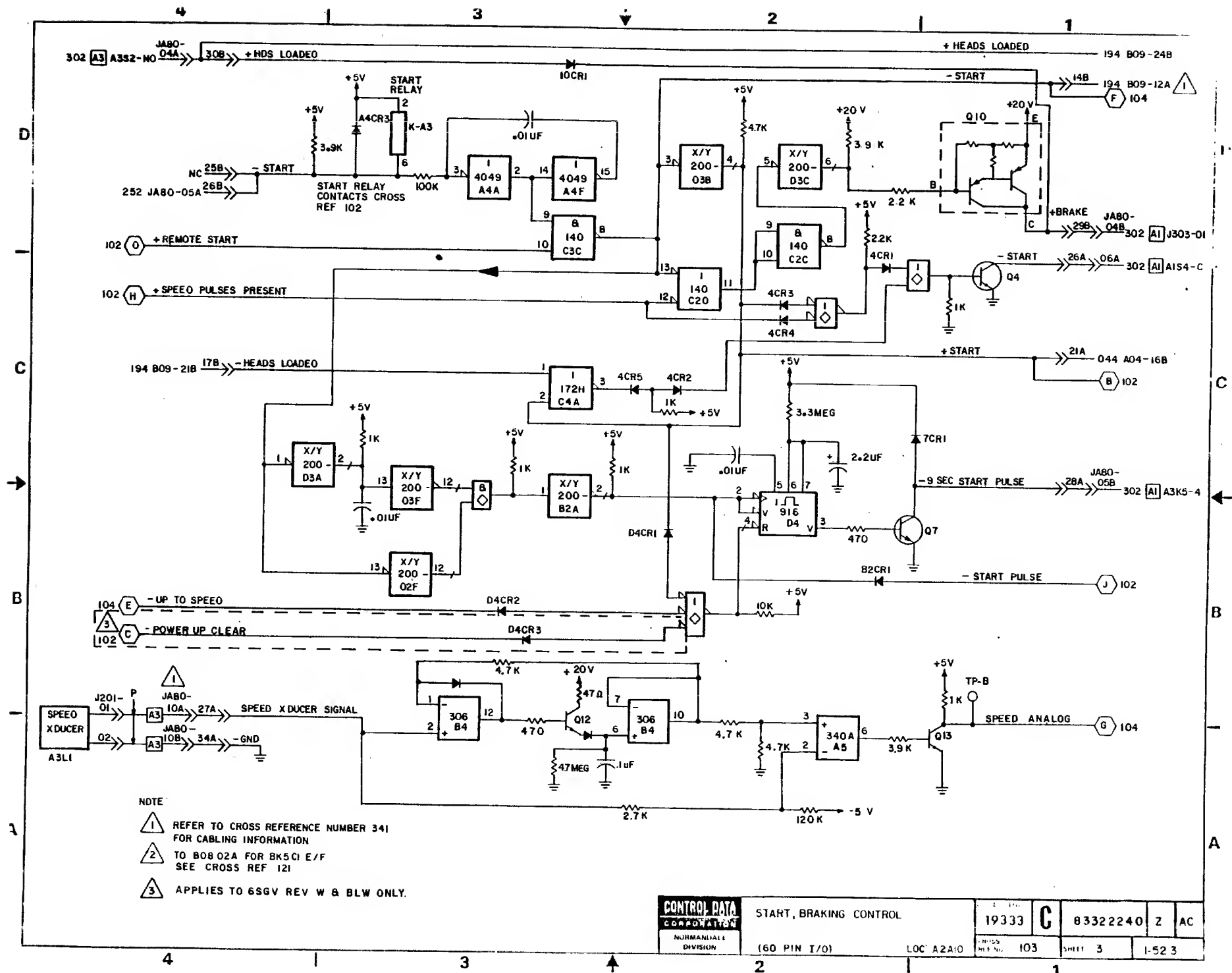
REVISIONS

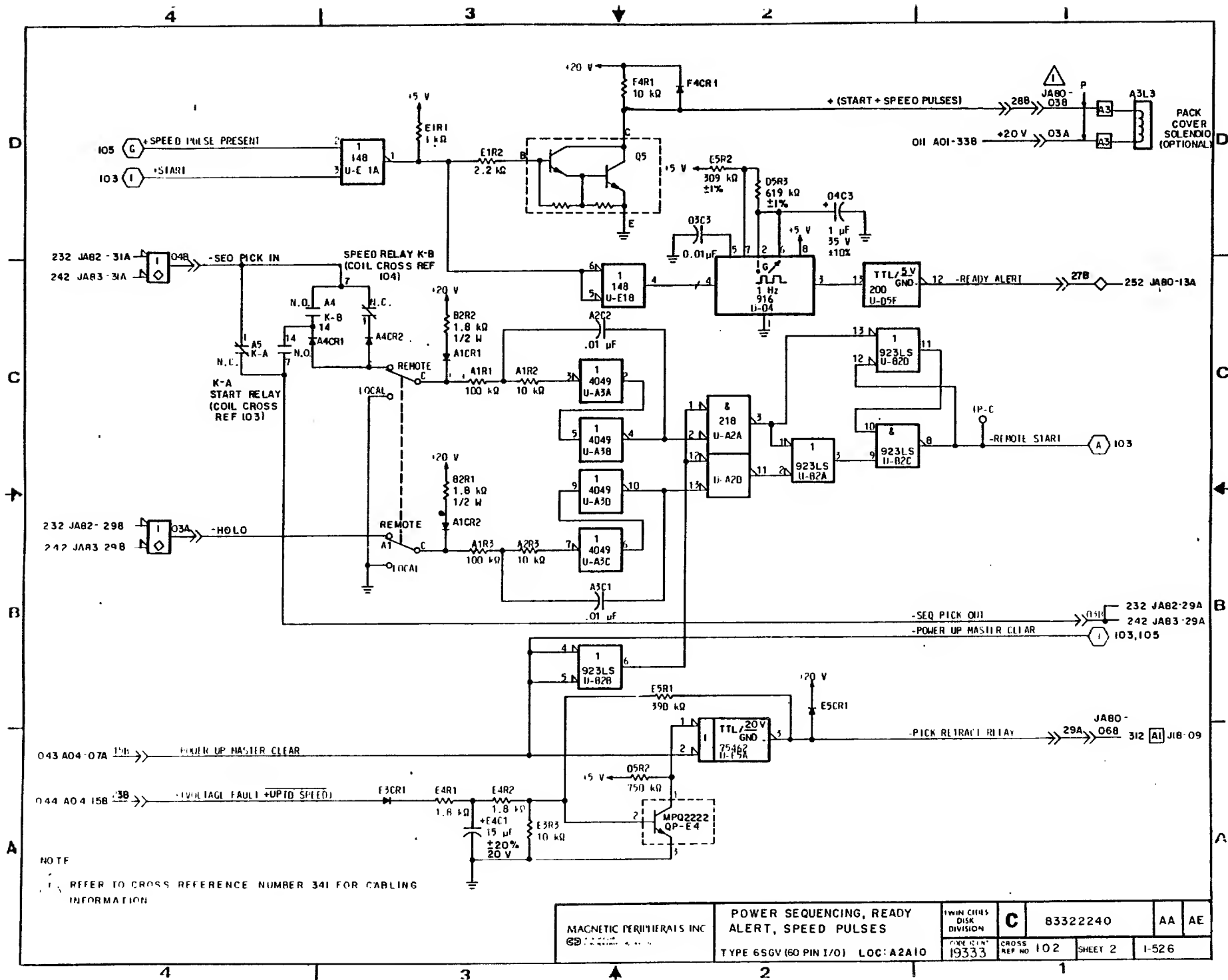
REV	ECO	DESCRIPTION	DRFT	DATE	CHK'D
A	PE23000	RELEASED	MA	11/1/74	
B	PE48296	ERR CORR	MA	11/1/74	
C	PE48402	ERROR CORRECTIONS	VG	1-5-77	
D	PE48445	PRE-ENT IMPROPER HEAD LOADING	UH	5-7-77	
E	PE48523	ERROR CORRECTION	SB	4-10-77	
F	PE48652	DELETE E483, CHANGE Q5 TO NN3569	DM	5-14-77	
G	PE48675	ERROR CORRECTION	DM	7-7-77	
H	PE48932	ADD ISOLATION DIODE TO +20V POWER	DM	11-29-77	
J	PE55377	REV PC BOARD & COMPONENTS	AAO	8-14-78	
K	PE55370	ERROR CORRECTION	AAO	8-10-78	
L	PE55865	UPDATE SCHEMATICS	JS	7-20-79	
M	PE55854	DOWN GRADING OF 80MB TO 40MB SMD	TH	8-23-79	
N	PE55828	INCREASES RES VALUE	CB	10-12-79	
P	PE60016	LOGIC DIA UP LATE	TH	1-1-80	
R	PE60142	IMPROVE 6SGV & 8SGV	TH	5-13-80	
S	PE60395	6SGV DES. IMPROV	WF	3-4-81	
T	PE60445	CHG RES ON B STOP TIME	WF	3-10-81	
U	DJ00157	CHG SPEED	MJ	5-28-83	
V	DJ00283	CHG B/D	MJ	5-28-83	
W	DJ22000	TRANSFER FROM PE	MJ	5-28-83	
Y	DJ00361	CHG 6SGV & 8SGV	MJ	5-28-83	
AA	DJ00558	ADD RESISTOR	JG	7-24-84	
AB	DJ00639	CHG RESISTOR /SGV	JG	7-24-84	
AC	DJ00668	CHG RESISTOR /TSTR /SGV	JG	7-24-84	

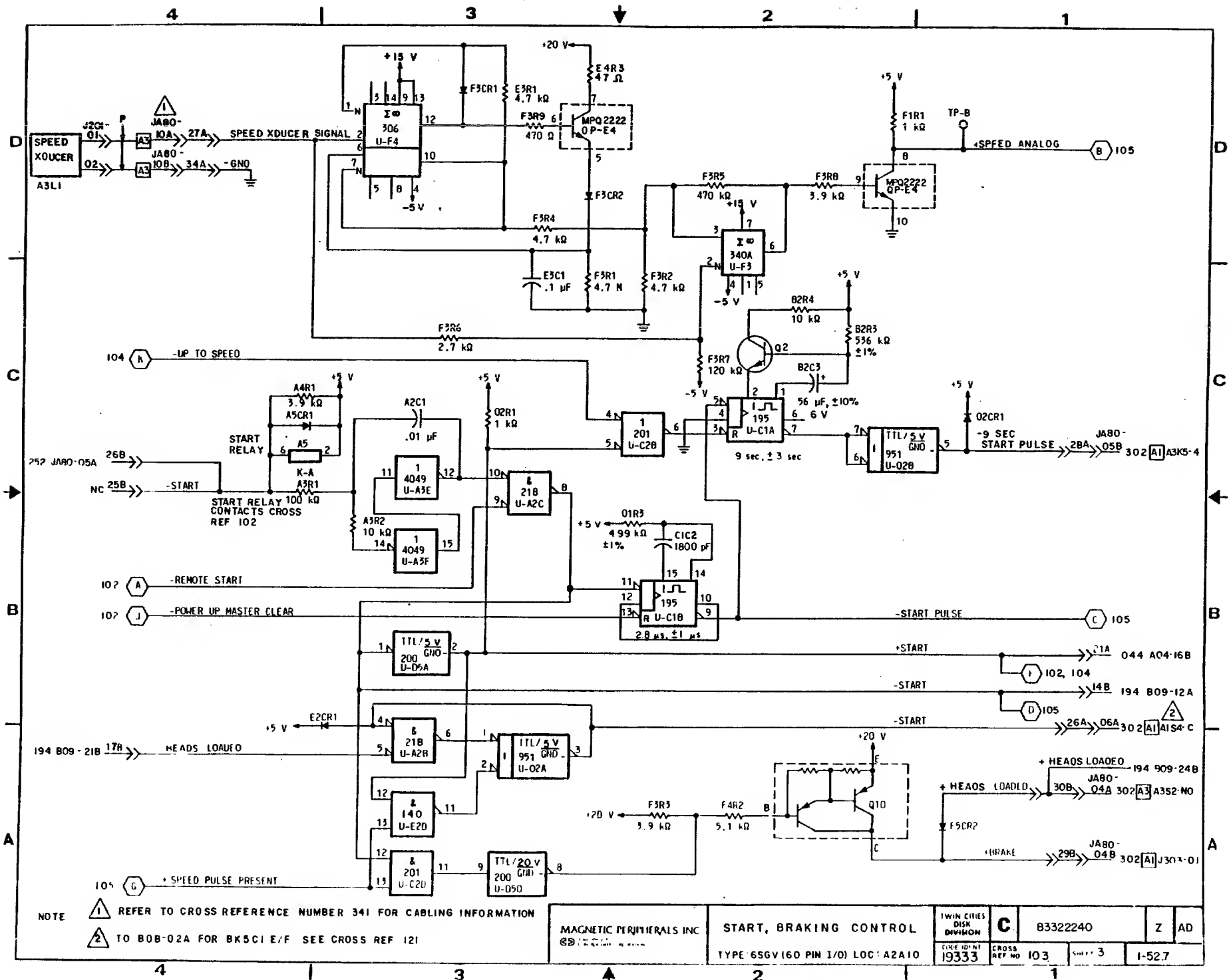


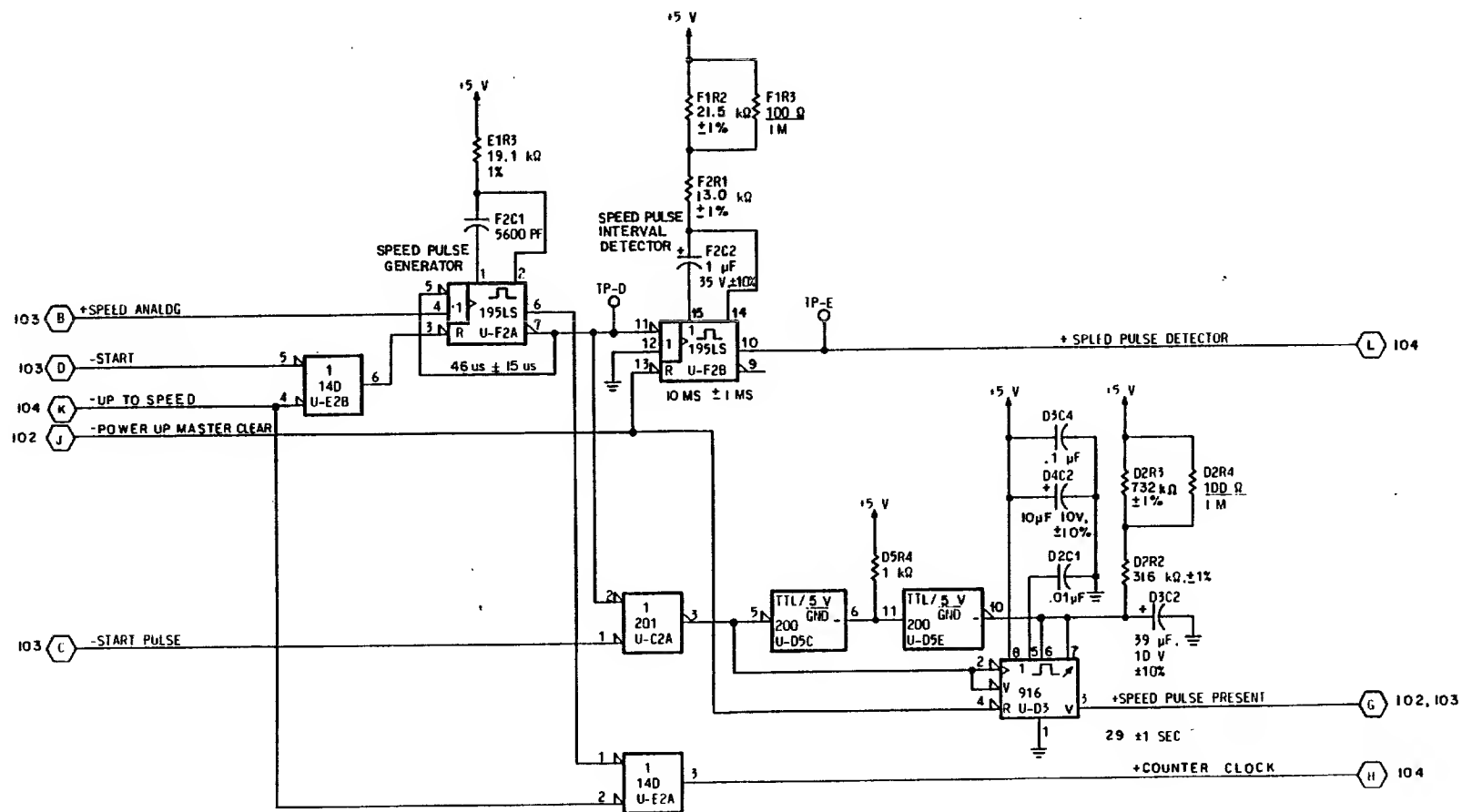
THIS SET USED FOR 6SGV REV V THRU AM (60 PIN I/O)

DRAWN	11-11-74	11-11-74	CONTROL DATA	INTERLOCKS AND SPEED DETECTOR	CODE IDENT	19333	C	83322240	Z	AC
CHECKED			11-11-74	DIAGRAMS						
ENGINEER										
APPROVED										
			NORMANDALE DIVISION	TYPE 6SGV	LOC A2A10	101	11-4	1-521		









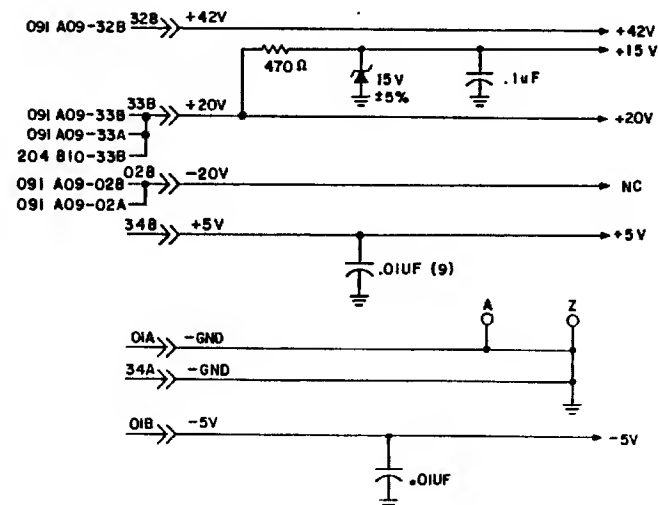
MAGNETIC PERIPHERALS INC.
69

SPEED FAULT AND WRITE
PROTECTED
TYPE 65GV (60 PIN I/O) LOC. A2A10

TWIN CITIES DISK DIVISION	C	83322240	AA	AE
CODE IDENT 19333	CROSS REF NO	105	SHEET 5	1-52 9/10

[illegible]

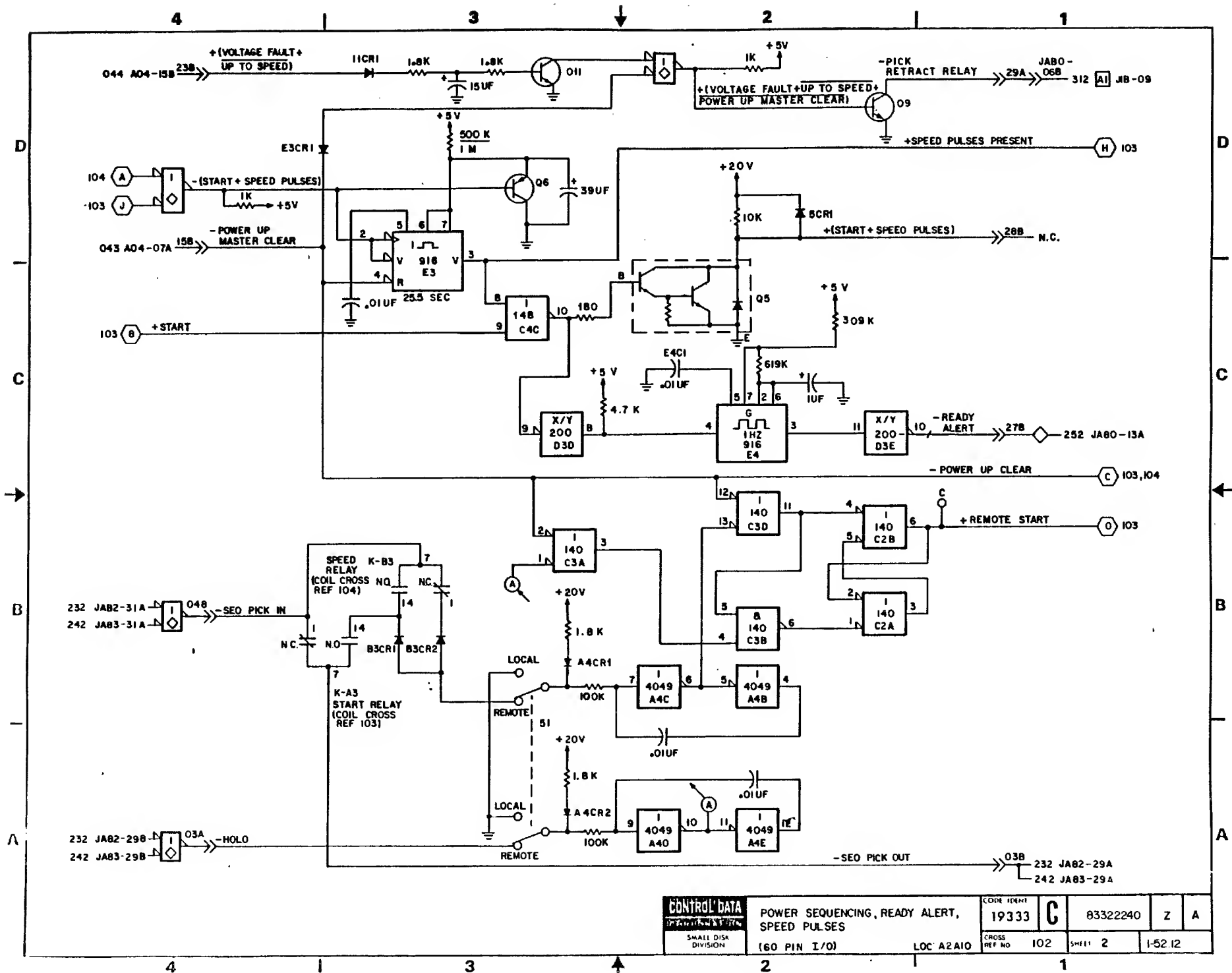
ELEMENT TYPE	LOCATION	OUTPUT PIN(S)
200	D3D	8

[illegible]

THIS SET USED FOR BK5C6D (60 PIN I/O)

(NAME) X.BARTSCH I-22-02		CONTROL DATA CORPORATION SMALL DISK DIVISION	INTERLOCKS AND SPEED DETECTOR DIAGRAMS		CODE IDENT 19333	C	83322240	Z	A
CHECKED					CONTROL NO 101	SHEET 1 of 4	PAGE 1-52 (1)		
ENGINEER									
APPROVED			TYPE 6SGV		LOC A2A10				

REF. 8324870



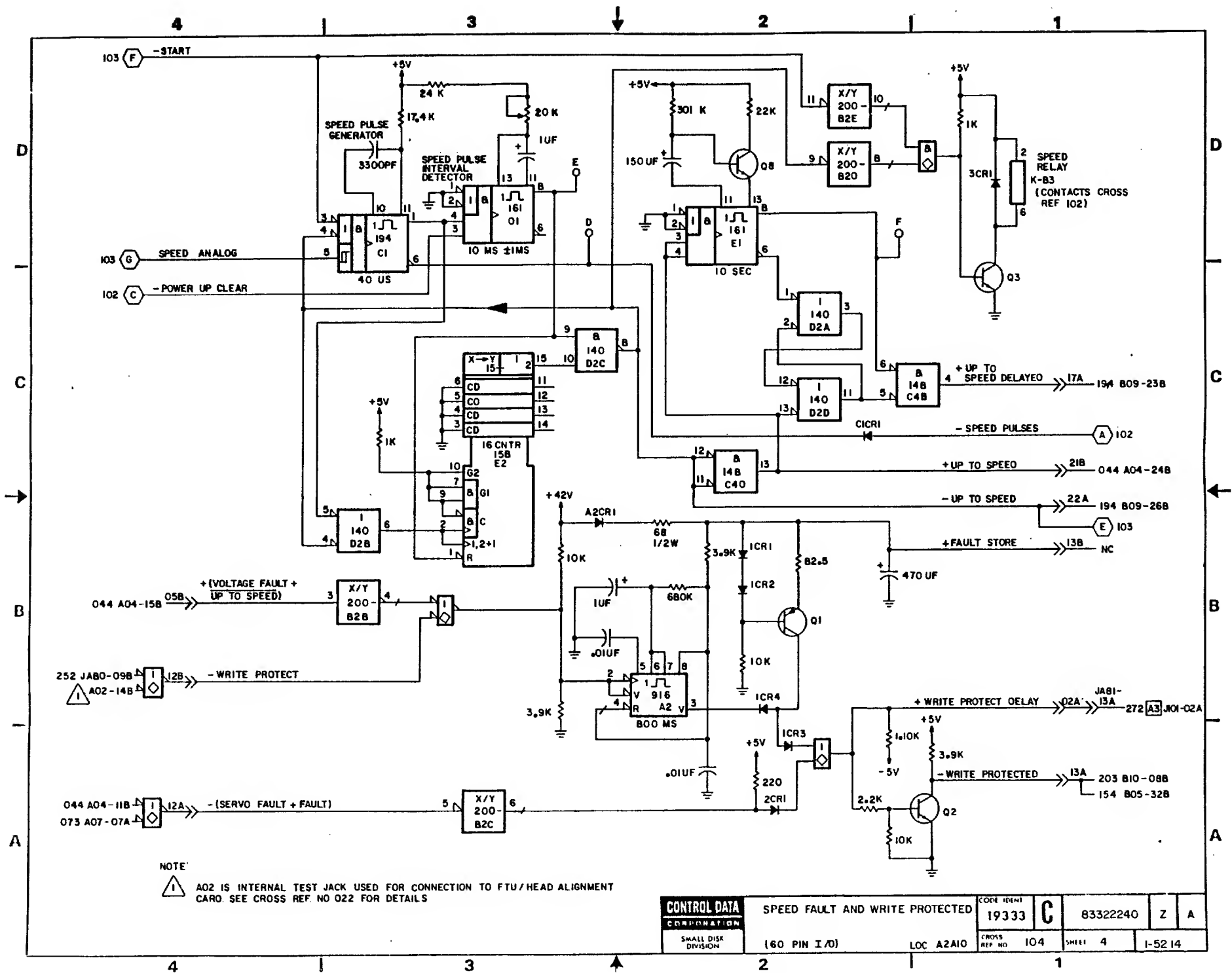
CONTROL DATA
SMALL DISK
DIVISION

POWER SEQUENCING, READY ALERT,
SPEED PULSES

(60 PIN I/O)

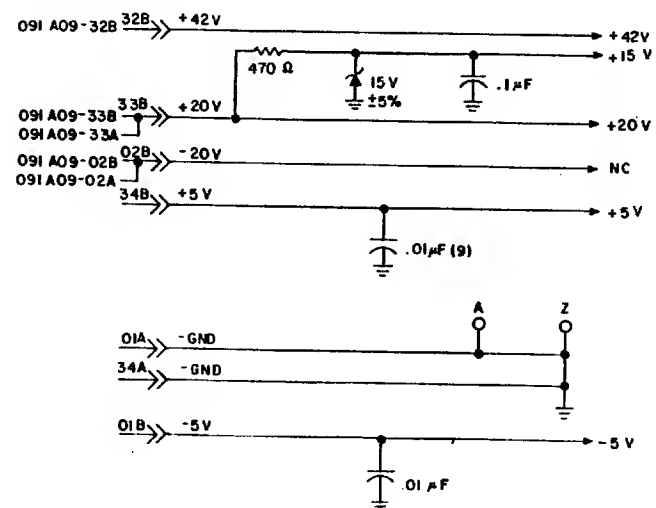
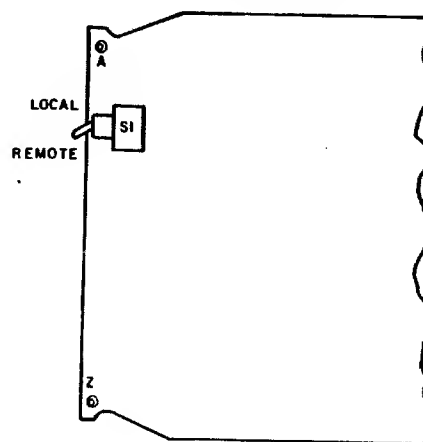
LOC A2A10

CODE IDENT 19333	C	83322240	Z	A
CROSS REF NO	102	SHEET 2	1-52.12	



REVISION STATUS OF SHEETS																			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A	A	A	A																
B			B																
C		C																	
D		D																	

LOCAL/REMOTE SWITCH
ON CARD EDGE

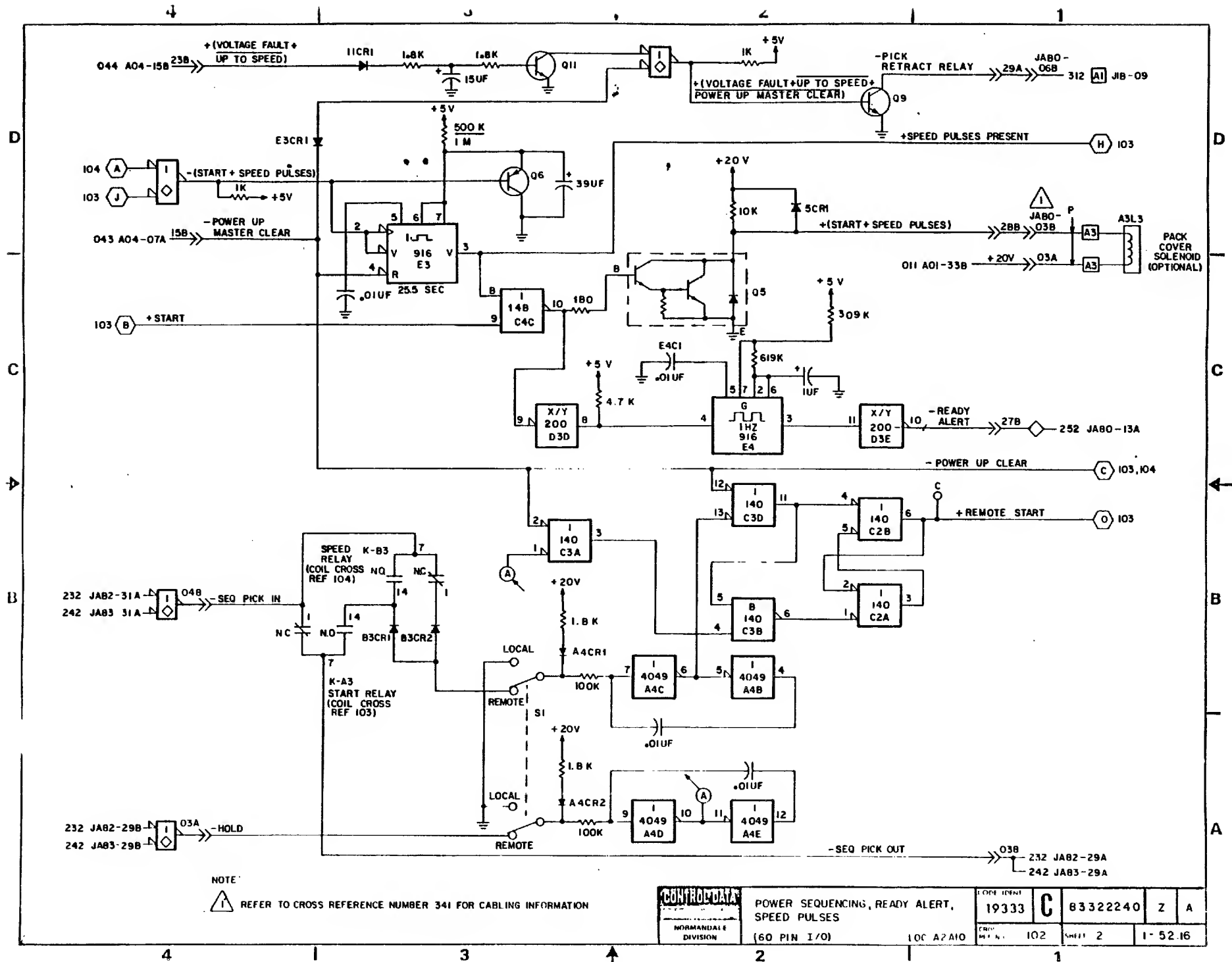


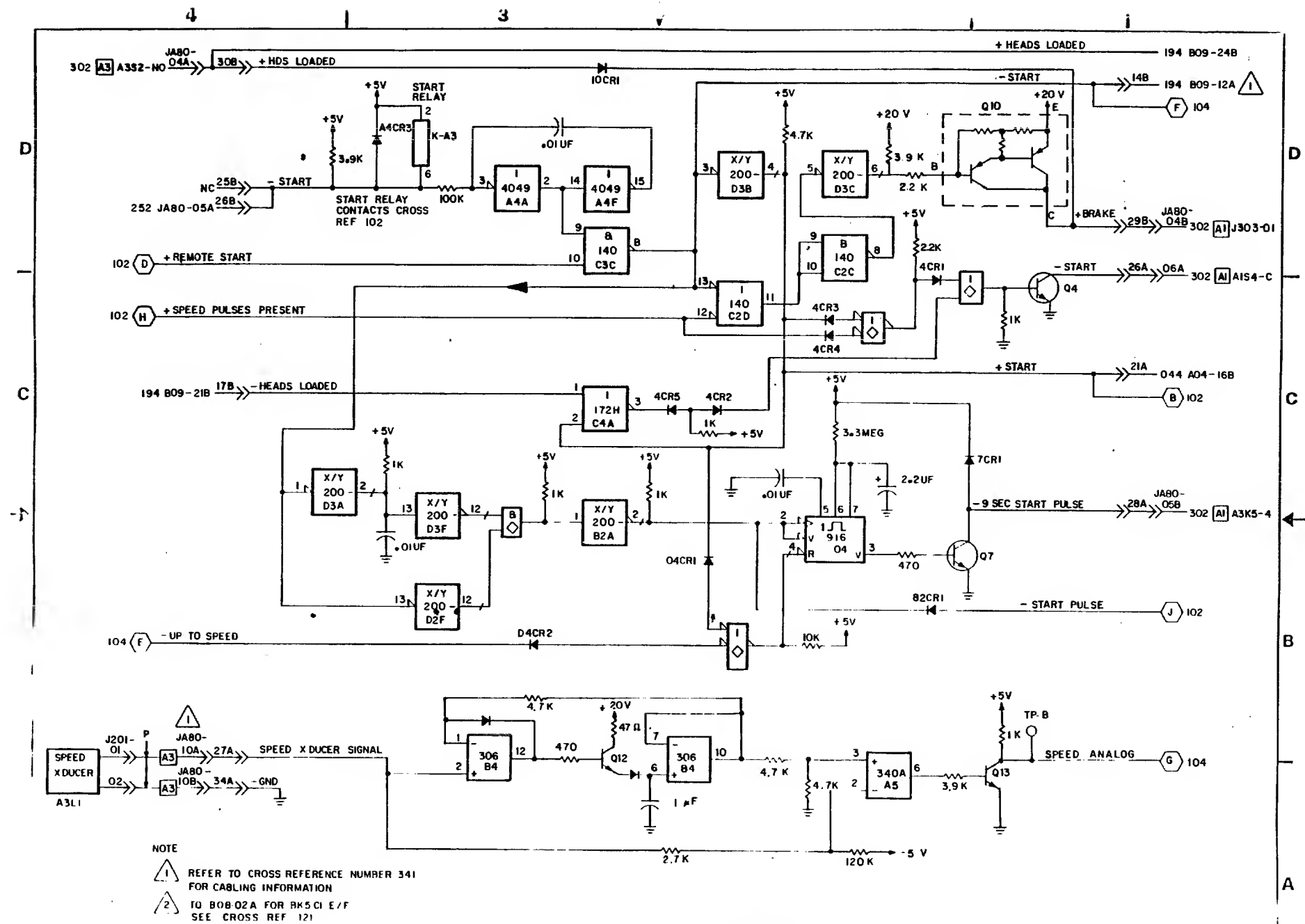
REV		ECO.		DESCRIPTION		DRFT	DATE	CHK'D
A	DJ00438	CREATE	#38V			MJ	2-10-83	
B	DJ00482	KSGV TEST	SELECT			JG	72584	
C	DJ00639	CHG RESISTOR	_SGV			JG	72584	
D	DJ00668	CHG RES/TSTR	_SGV			JG	72584	

THIS SET USED FOR KSGV REV A & ABOVE BK5C4R/S (60 PIN I/O)

THIS SET USED FOR KSGV REV A & ABOVE BK5C4R/S (60 PIN I/O)														
DESIGNED BY	M A JAHN	DATE	11-83	MAGNETIC PERIPHERALS INC.		INTERLOCKS AND SPEED DETECTOR		NORMANDALE OPERATIONS		C	83322240		Z	D
APPROVED BY				A DIVISION OF		DIAGRAMS								
TYPE: KSGV		LOC: A2A10		1		4		1-52:15						

1 REF: 83215937



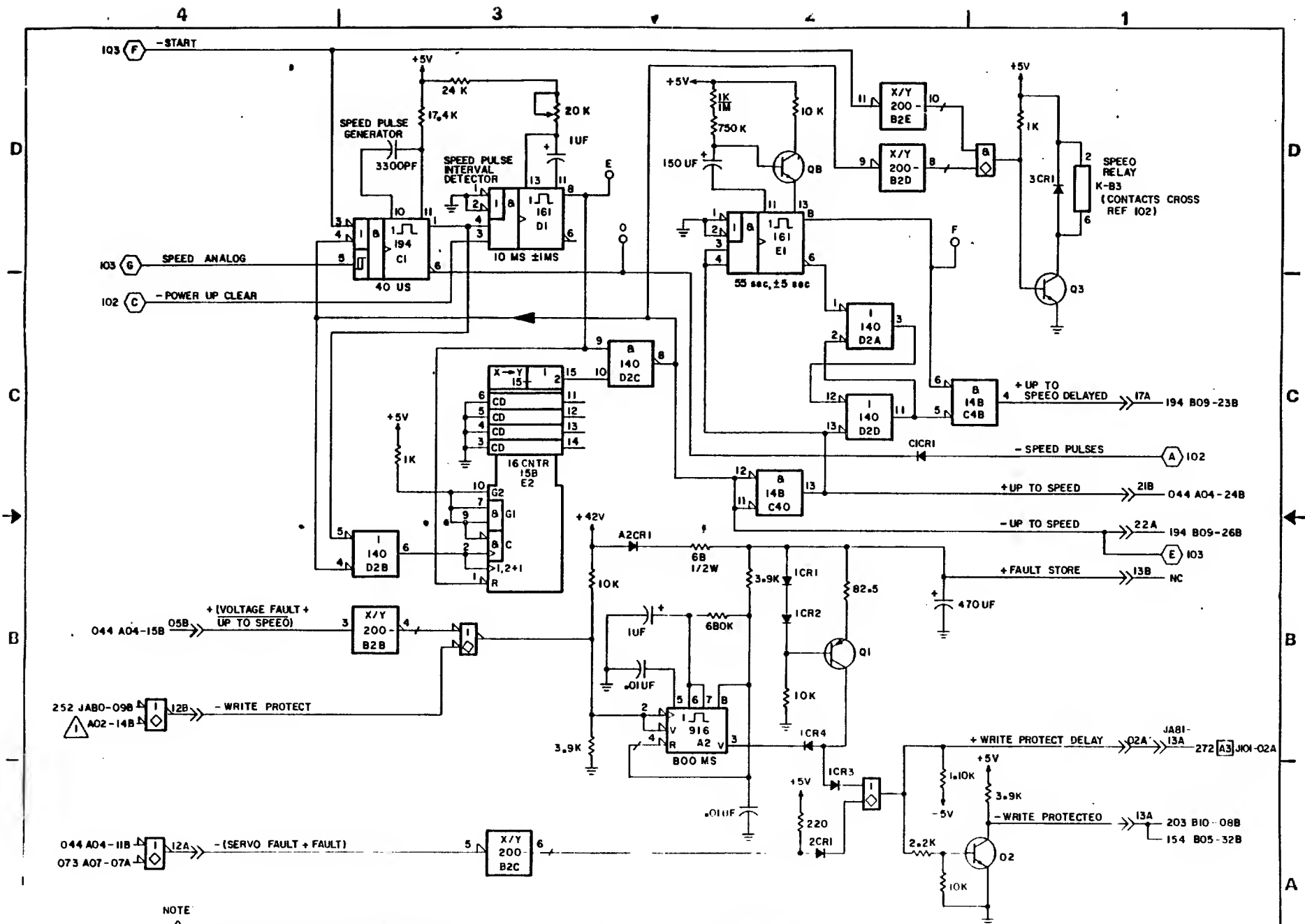


START, BRAKING CONTROL

(60 PIN I/O)

LOC A2A10

19333	C	83322240	Z	D
103	5	1-52.17		



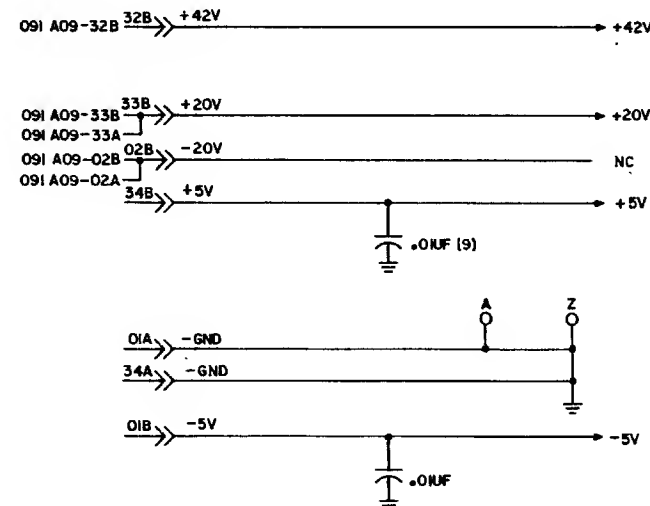
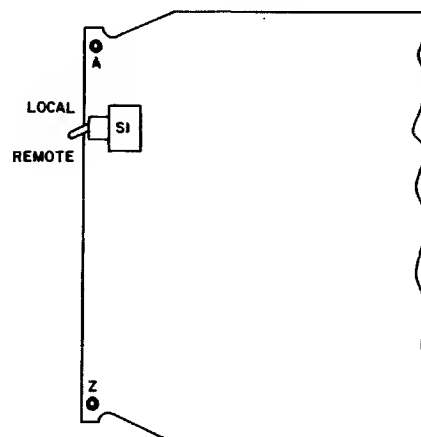
CONTROL DATA NORMANDALE DIVISION	SPEED FAULT AND WRITE PROTECTED		19333	C	83322240	Z	B
	(60 PIN I/O)	LOC 22A10	REF 104	SHEET 4	1-52.18		

REVISION STATUS OF SHEETS																				
I	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
A	A	A	A																	
B	B	B	B																	
C	C	C	C																	
D	D	D	D																	
E	E	E	E																	
F	F	E	E																	
G	G	E	E																	
H	H	E	E																	
J	J	J	J																	
K	K	K	K																	
L	K	L	K																	
M	K	M	K																	
N	N	M	K																	

REVISIONS					
REV.	ECD	DESCRIPTION	DWFT	DATE	CHK'D
A	PE23000	RELEASED			
B	PE48296	CORRECT DIAGRAMS			
C	PE48402	CORR DIAG			
D	PE48652	IMPROVE CARD			
E	PE48523	CORR DIA.			
F	PE48652	IMPROVE CARD			
G	PL48675	IMPROVE CARD YIELD			
H	PE48932B	ADD ISOLATION DIODE TO +20 POWER			
J	PE55377	IMPROVE YIELD			
K	PE55370	ERROR CORR	MF	11-4-80	
L	PE55922	CHG COMP DESIG	MF	11-4-80	
M	PE55928	CHG RES VALUES	MF	11-4-80	
N	PE6006	ERRDR CORR	MF	11-4-80	

ELEMENT TYPE	LOCATION	OUTPUT PIN(S)
200	D3D	8

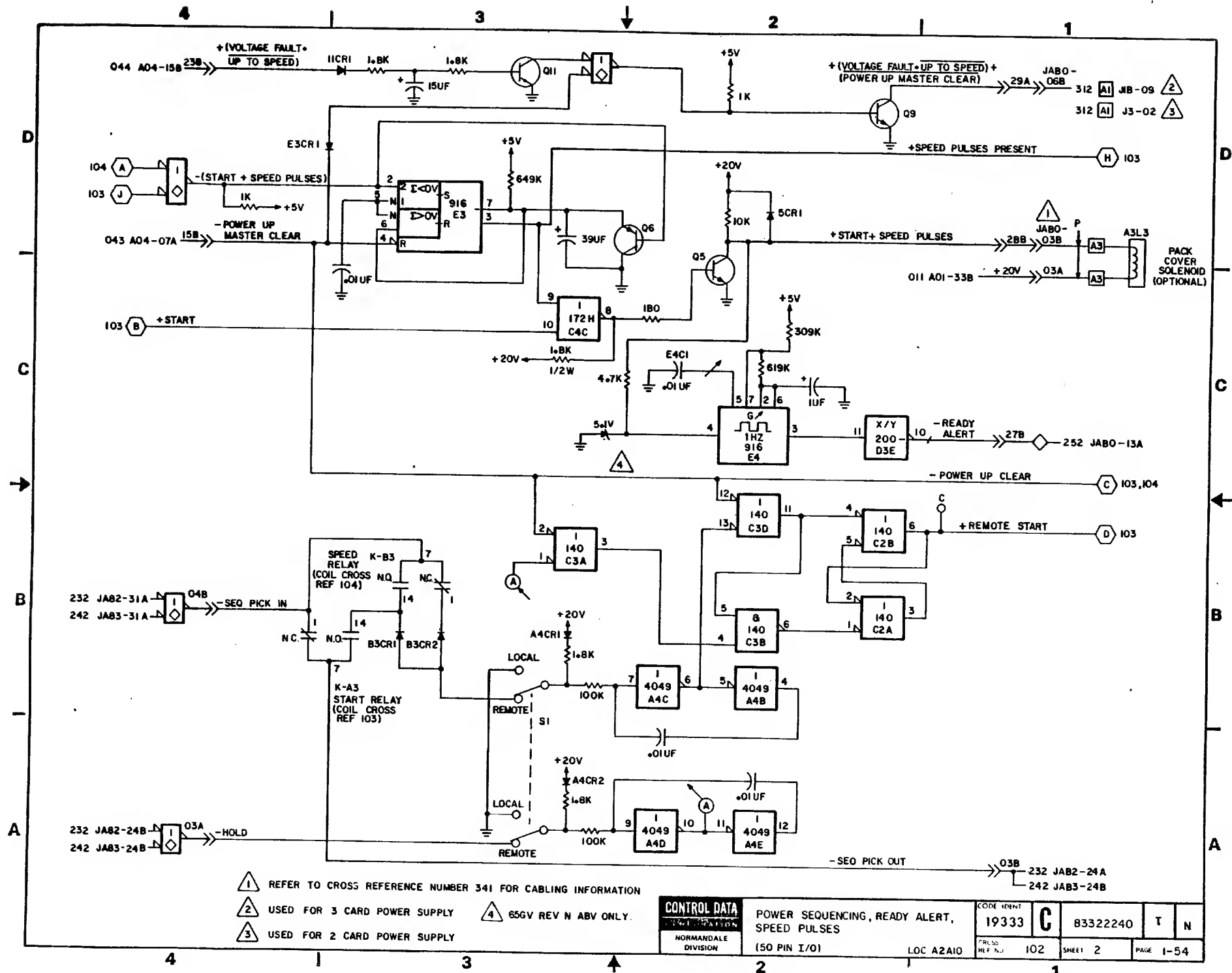
LOCAL / REMOTE SWITCH
ON CARD EDGE

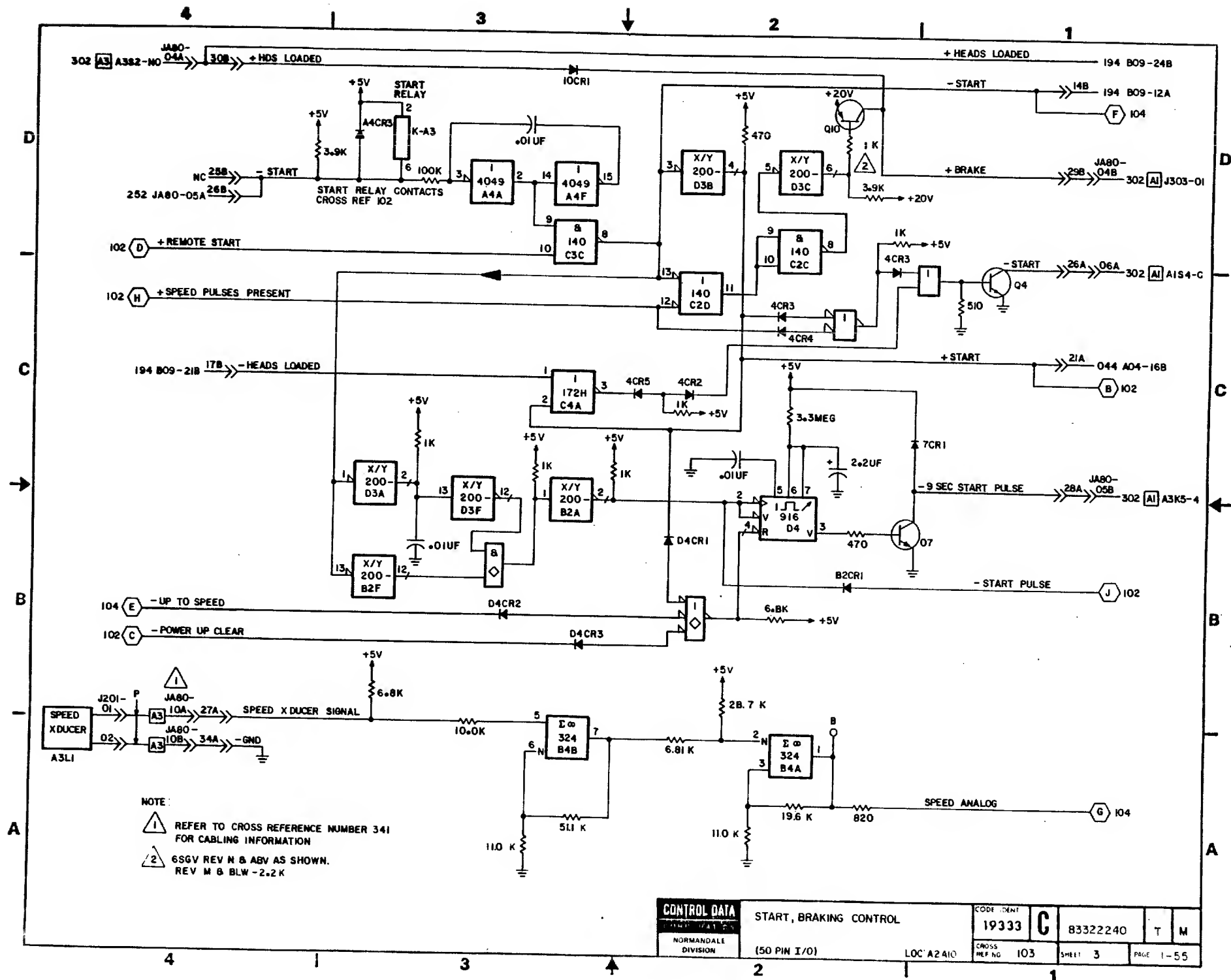


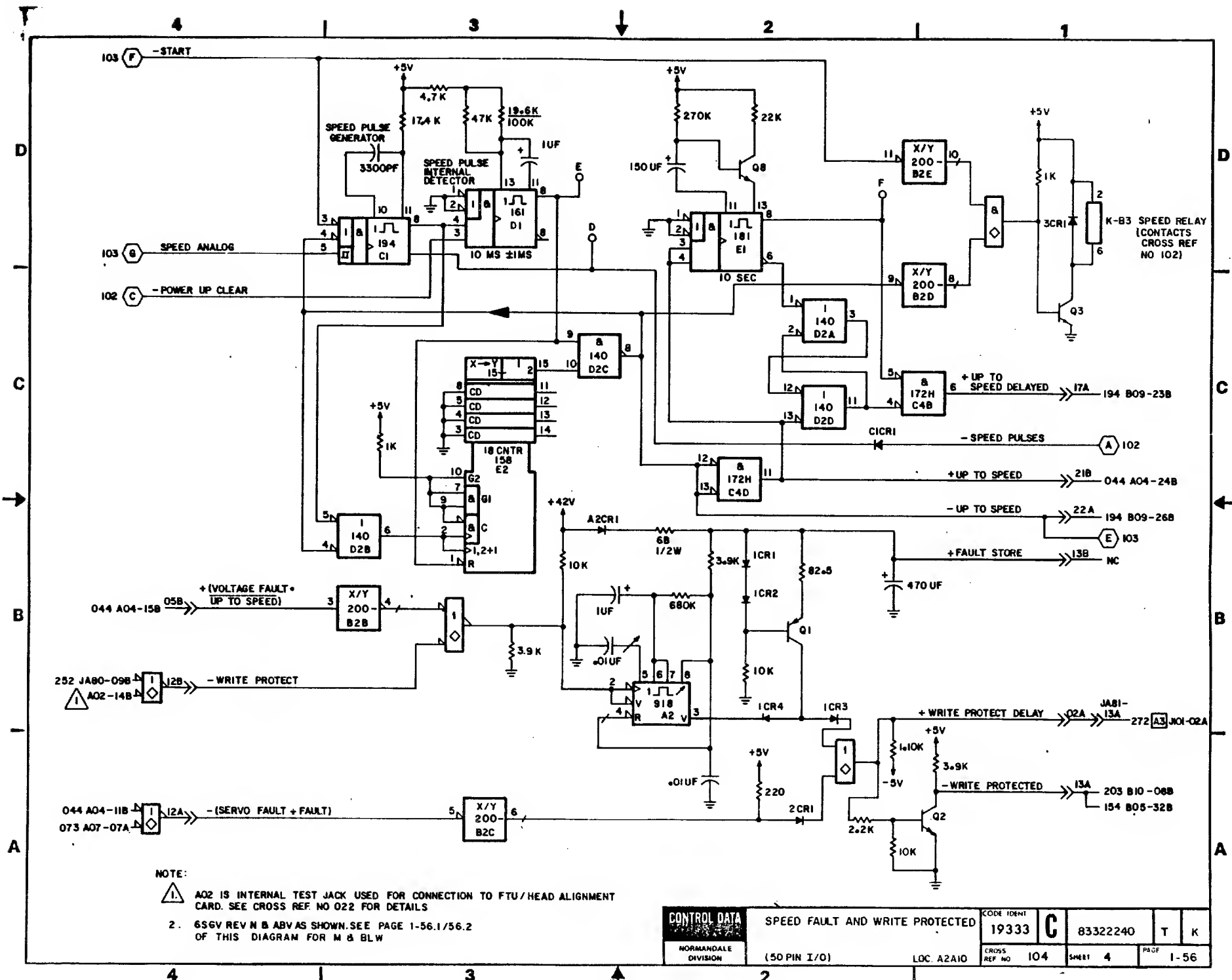
NOTE

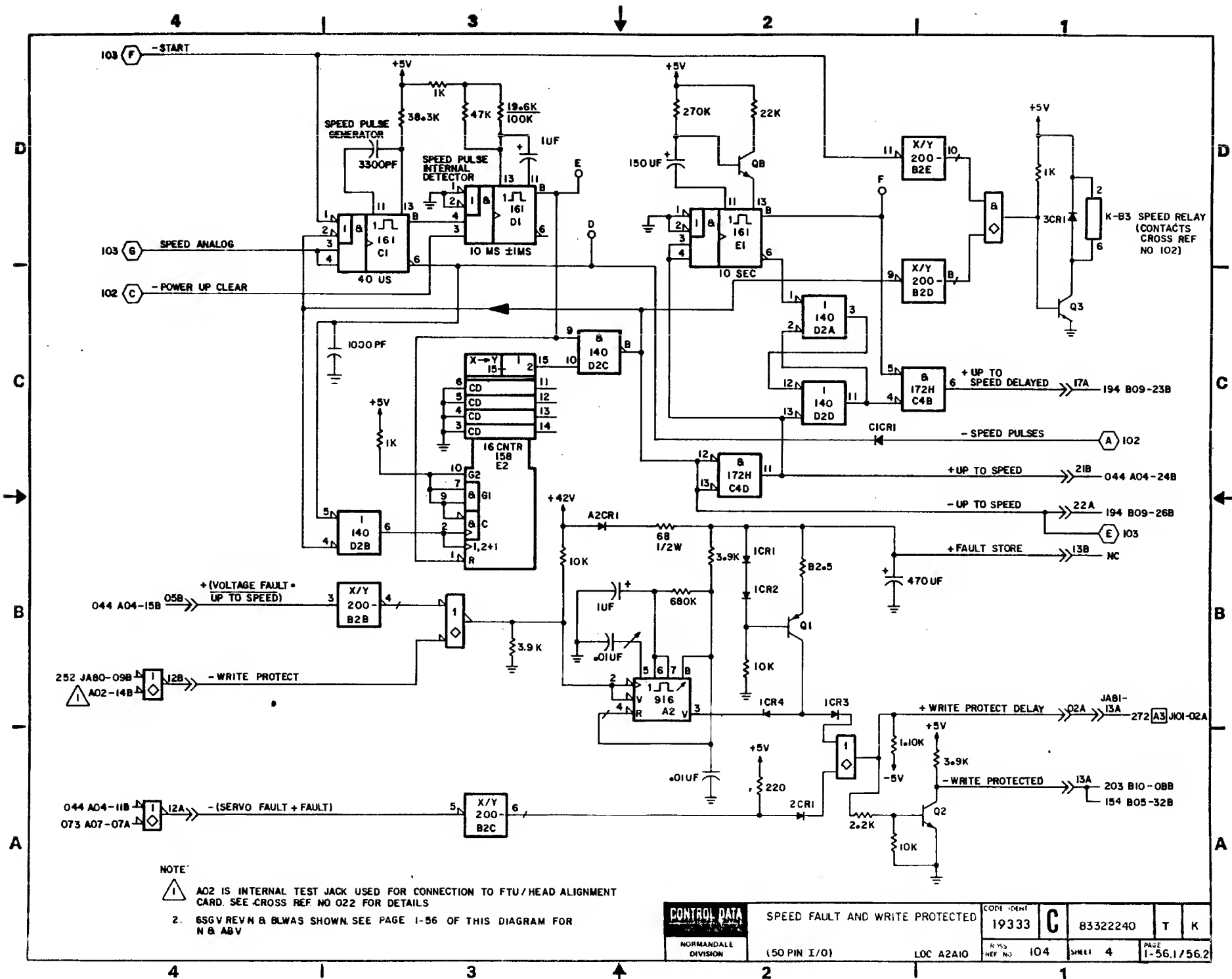
THIS SET USED FOR 6SGV REV U & BLW. APPLICABLE TO 50 PIN I/O.

DRAWN	11-22-78	CONTROL DATA	INTERLOCKS AND SPEED DETECTOR DIAGRAMS	CODE IDENT	19333	83322240	U	N
CHECKED								
ENGINEER								
APPROVED								
NORMANDALE DIVISION		TYPE 6SGV		LOC A2A10		SHEET 1 of 4		PAGE 1-53
				CROSS REF NO 101		REF 83214835		







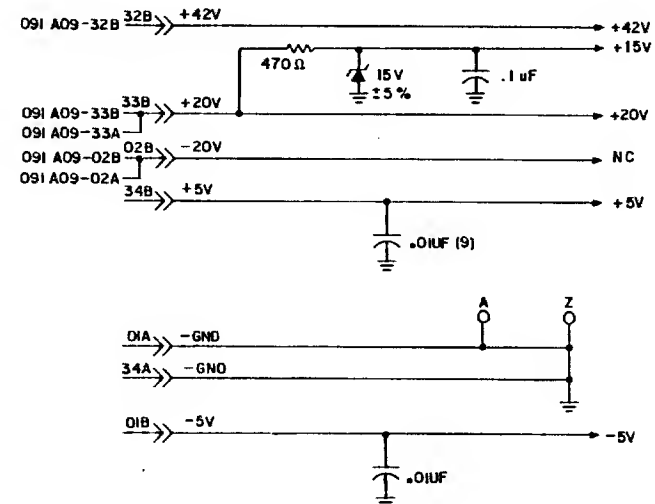
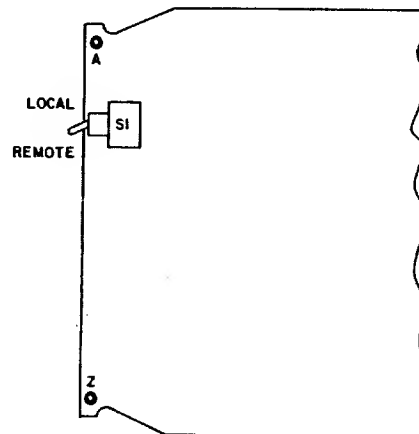


REVISION STATUS OF SHEETS																			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A	A	A	A																
B	B	B	B																
C	C	C	C																
D	D	D	D																
E	E	E	E																
F	F	E	E																
G	G	E	E																
H	H	E	E																
J	J	J	J																
K	K	K	K																
L	K	L	K																
M	K	M	K																
N	N	M	K																
P	P	P	P																
R	R	P	P																

UNUSED LOGIC ELEMENT		
ELEMENT TYPE	LOCATION	OUTPUT PIN(S)
200	D3D	8

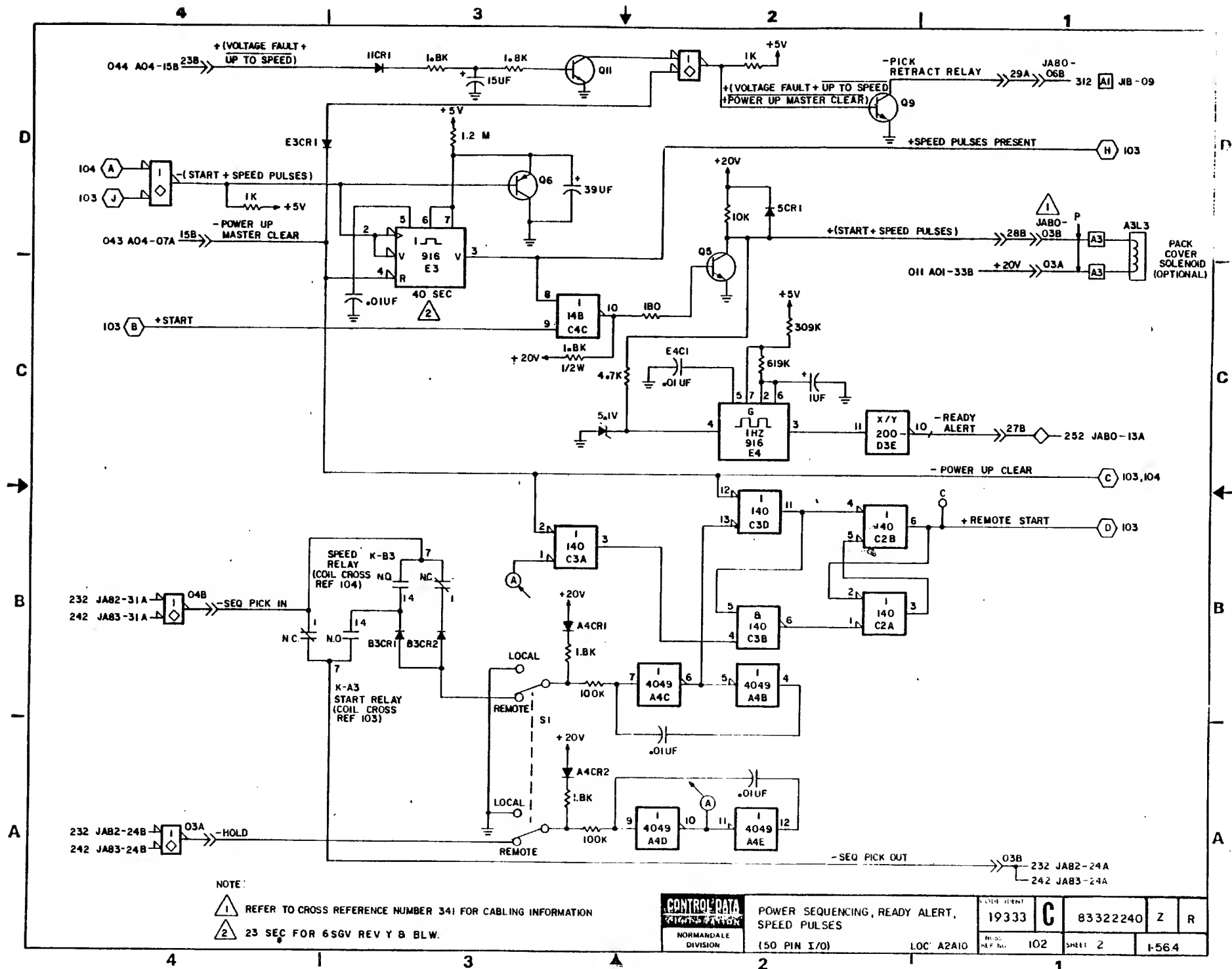
REVISIONS					
REV	ECO	DESCRIPTION	DRFT	DATE	CHK'D
A	PE23000	RELEASED	MLA	11-11-77	
B	PE48296	ERR CORR.	MA	11-29-78	
C	PE48402	ERROR CORRECTIONS	VC	1-11-77	
D	PE48445	PREVENT IMPROPER HEAD LOADING	GR	3-7-77	
E	PE48523	ERROR CORRECTION	SB	4-7-77	
F	PE48652	DELETE E4B3, CHANGE OS TO HN3569	DM	6-14-77	
G	PE48675	ERROR CORRECTION	DM	7-7-77	
H	PE48932	ADD ISOLATION DIODE TO +20V POWER	DM	11-29-77	
J	PE55377	REV PC BOARD & COMPONENTS	AAO	8-14-78	
K	PE55370	ERROR CORRECTIONS	AAO	8-10-78	
L	PE55922	CHG COMP DESIG	TH	9-19-79	
M	PE55928	INCREASE RES. VALUE	CB	10-1-79	
N	PE60016	LOGIC DIA UP DATE	TH	1-11-80	
P	PE60142	IMPROVE 655V & 855V	TH	5-11-80	
R	PE60445	CHG RES ON -5GV	MF	3-16-81	

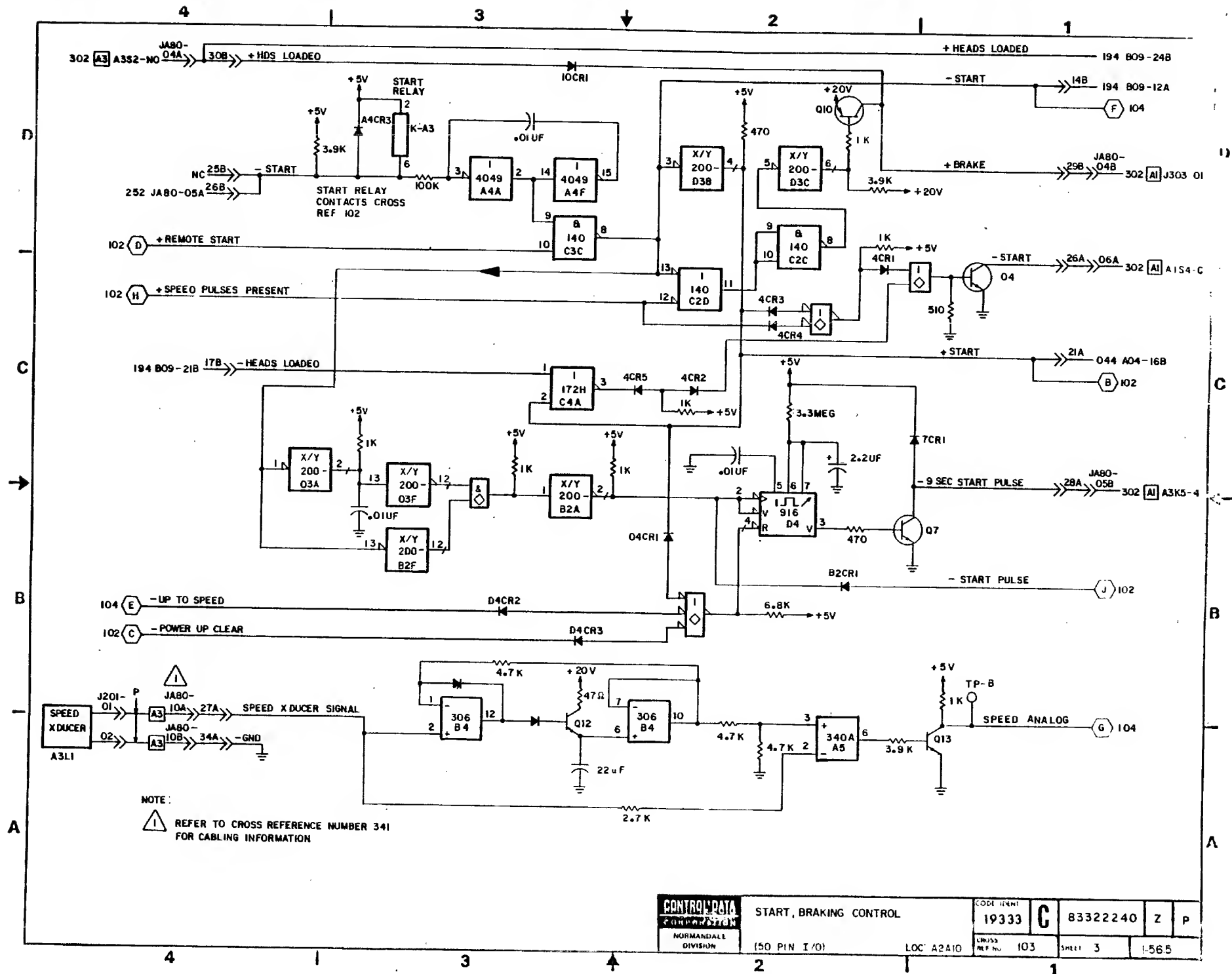
LOCAL / REMOTE SWITCH
ON CARD EDGE



THIS SET USED FOR 6SGV, REV V & ABOVE
(50 PIN I/O.)

DESIGN	10/1/77	CONTROL DATA	INTERLOCKS AND SPEED DETECTOR	CODE IDENT	19333	C	83322240	Z	R
CHECKED			DIAGRAMS						
ENGINEER		NORMANDALE	TYPE 6SGV	CROSS REF	101		SHEET	1 OF 4	PAGE
APPROVED		DIVISION	LOC A2A10						1563





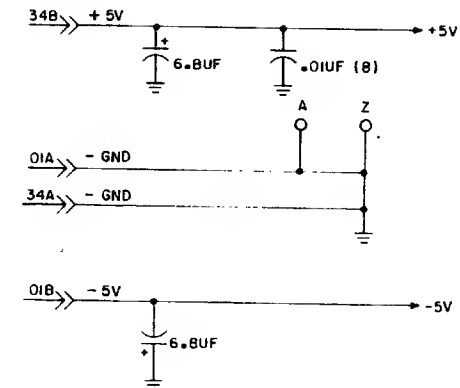
CONTRONICS
 CORPORATION
 NORMANDALE
 DIVISION

START, BRAKING CONTROL

(50 PIN I/O)

CODE IDENT	19333	C	83322240	Z	P
UNISS REF NO	103	SHEET	3	1-565	

LOC A2A10

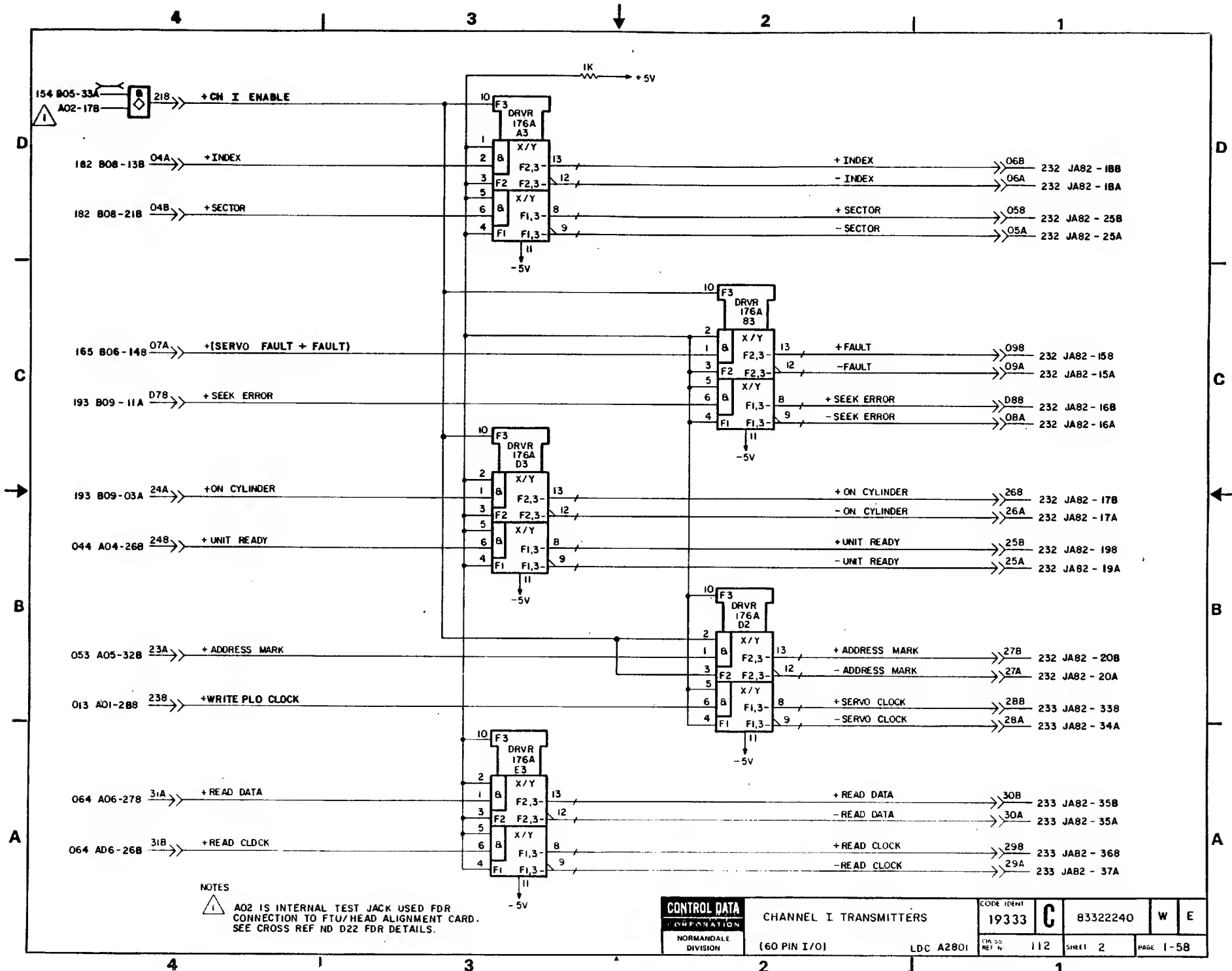
[illegible][illegible]

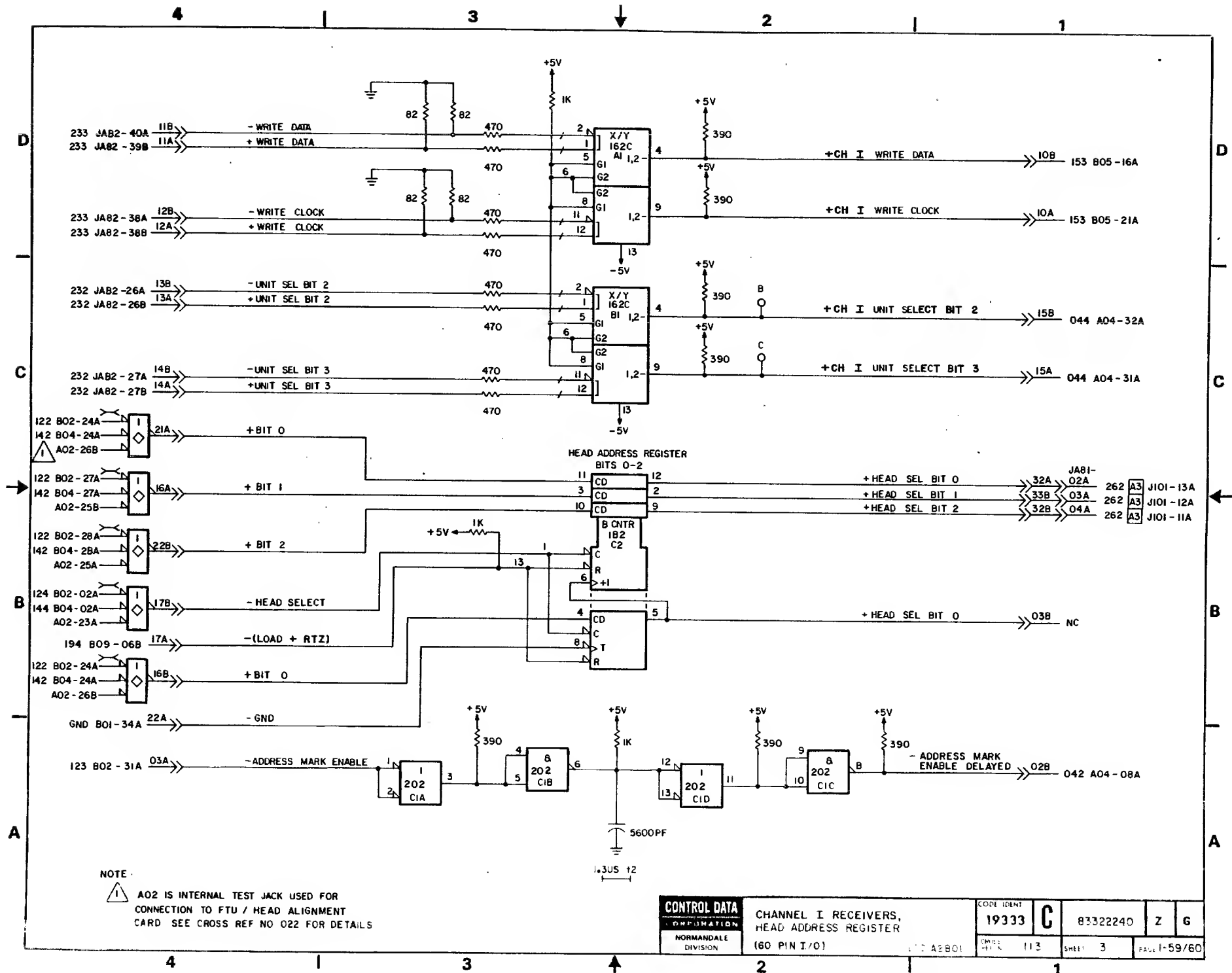
DRAWN	G. RABINE	8/19/76	CONTROL DATA CORPORATION TWIN CITIES DISK DIVISION
CHECKED			
ENGINEER			
APPROVED			

CHANNEL I TRANSMITTERS AND
RECEIVERS - HEAD ADDRESS REGISTER
DIAGRAMS

TYPE FTVV LOC A2801

CODE IDENT	C	83322240	Z	G
19333				
CROSS REF NO	111	SHEET 1 OF 3	PAGE 1-57	



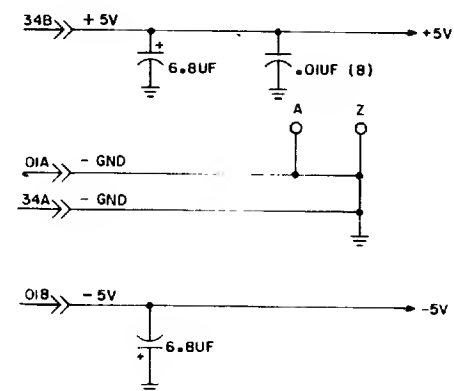


REVISION STATUS OF SHEETS

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A	A	A																		
B	B	B																		
C	C	C	B																	
D	D	B																		

REVISIONS

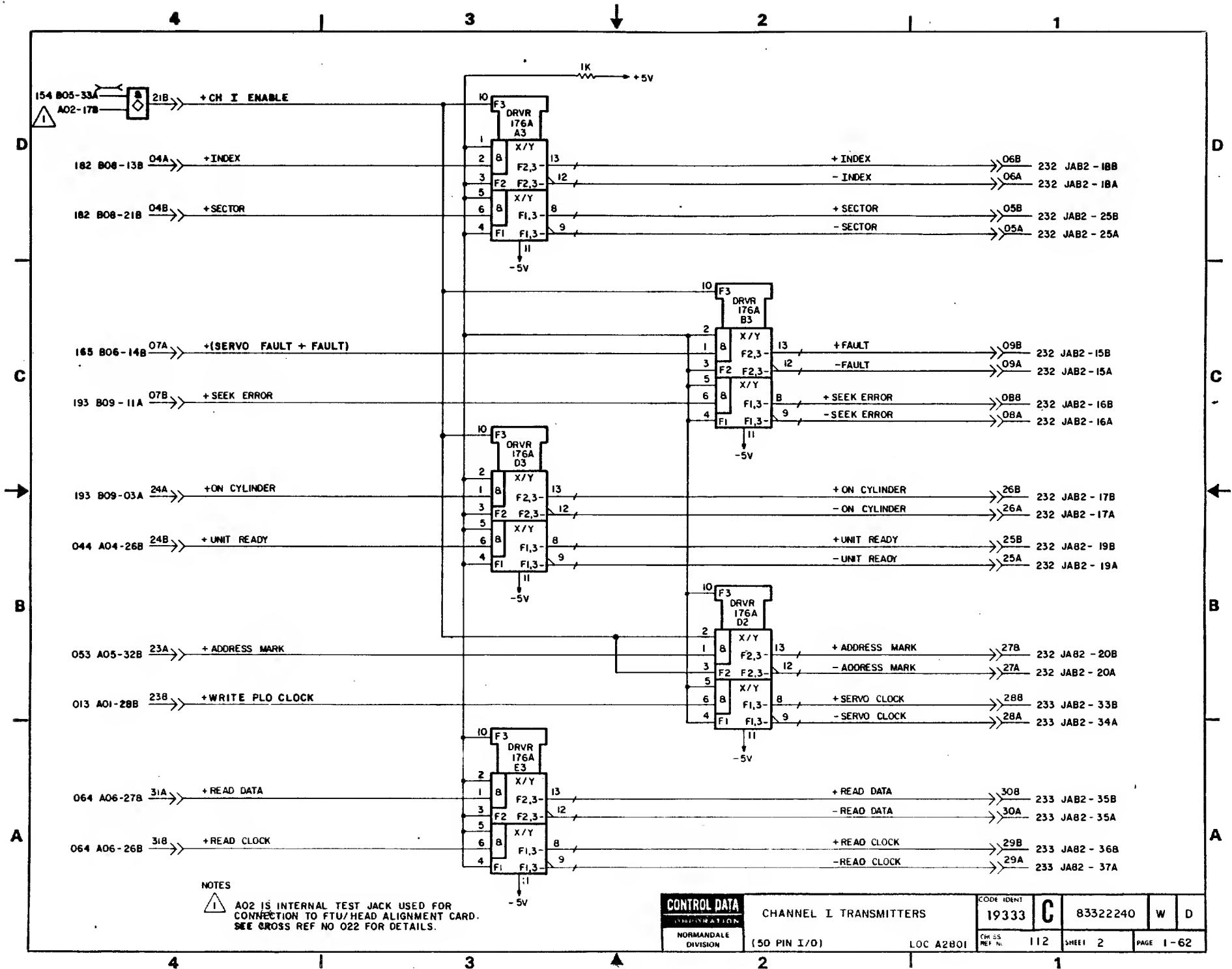
REV	ECO	DESCRIPTION	DRFT	DATE	CHK'D
A	FE23447	HE 1.041E1			
B	FE48402	CORRECT DIAGRAMS	GR	12 16 76	
C	FE48568	CORR ERR	DM	7-25-77	
D	DJ00201	P10 CLOCK ERROR	MJ	5-13-82	

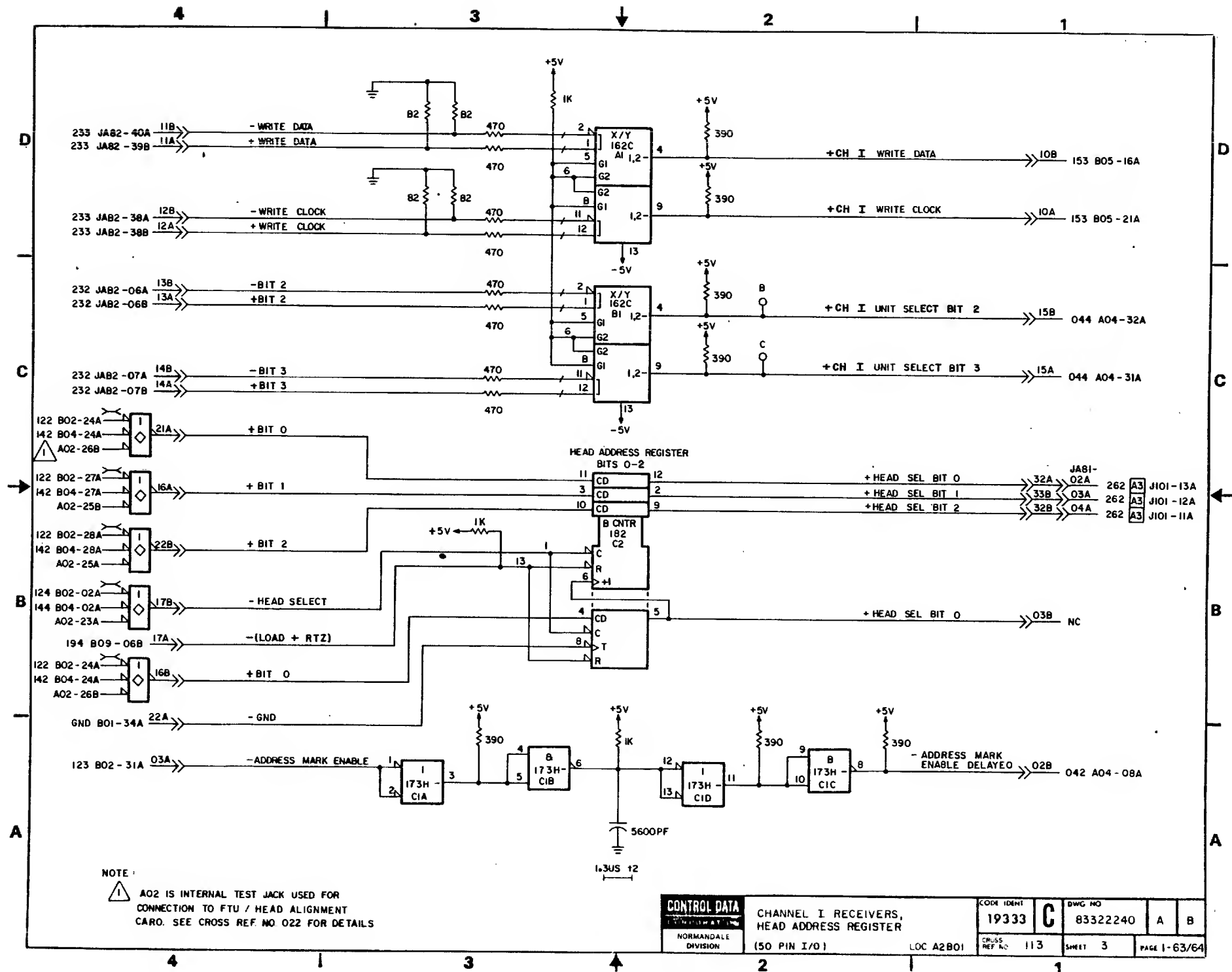


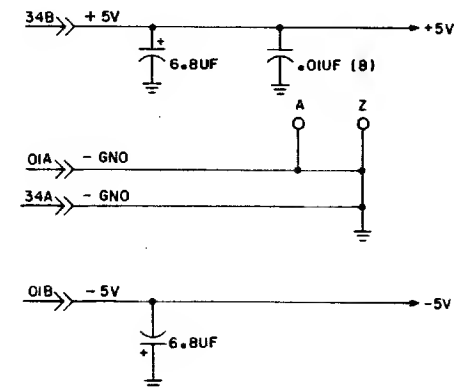
APPLICABLE TO 50 PIN I/O

DRAWN	CHECKED	ENGINEER	APPROVED	CONTROL DATA	CHANNEL I TRANSMITTERS AND RECEIVERS - HEAD ADDRESS REGISTER DIAGRAMS	CODE IDENT	19333	C	83322240	W	D
				NORMANDALL DIVISION	TYPE FTVL	CROSS REF	LOC A2B01	SHEET	1 OF 3	PAGE	1-6

REF 83214836

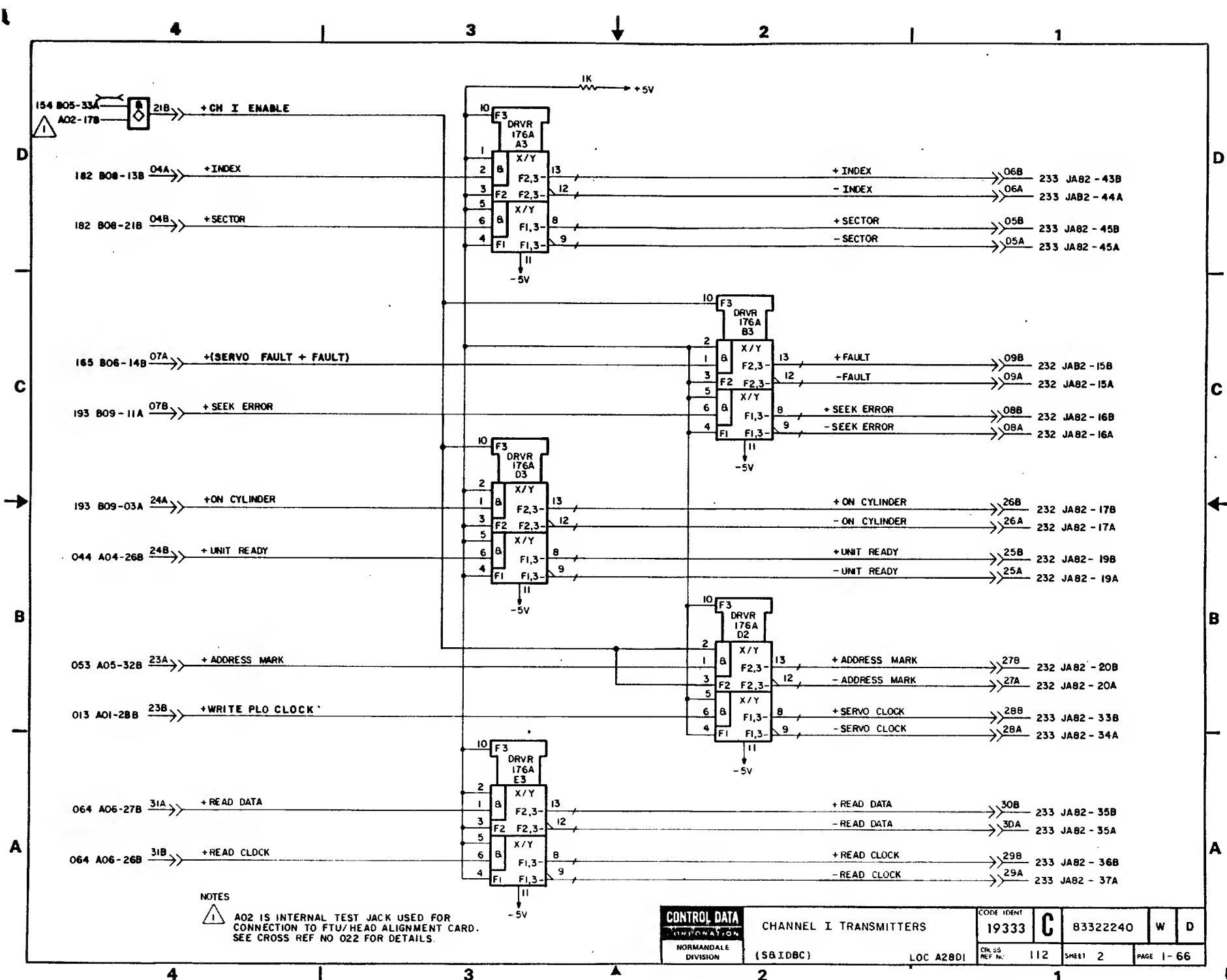




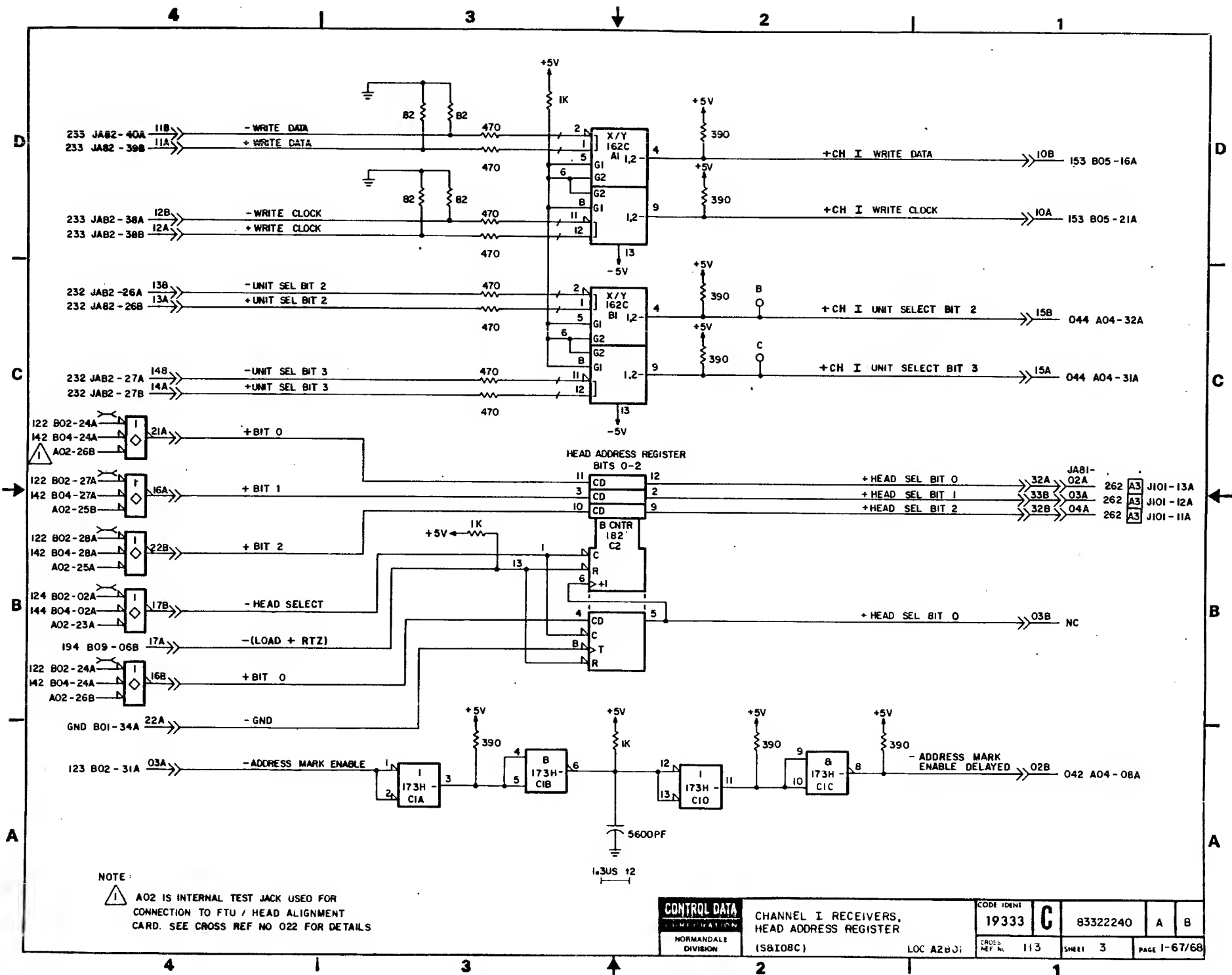
[illegible][illegible]

DRAWN	G. RABINE	8/19/72	CONTROL DATA <small>Control Data Corporation</small> NORMANDALE DIVISION	CHANNEL I TRANSMITTERS AND RECEIVERS - HEAD ADDRESS REGISTER DIAGRAMS		CODE IDENT	19333	C	83322240	W	D	
CHECKED				TYPE: GTVV		LOC A2B01	CROSS REF NO	111	SHEET	1 of 3	PAGE	1-65
ENGINEER												
APPROVED												

1 REF 83214846



NOTES
 1 A02 IS INTERNAL TEST JACK USED FOR CONNECTION TO FTU/HEAD ALIGNMENT CARD. SEE CROSS REF NO 022 FOR DETAILS.



REVISION STATUS OF SHEETS

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A	A	A	A	A																
B	A	A	A	B																
C	C	C	C	C																
D	C	C	C	D																
E	C	C	C	D																
F																				
G		G																		

UNUSED LOGIC ELEMENTS

ELEMENT TYPE	LOCATION	OUTPUT PIN(S)
173H	B1B	6
230LS	A1A	12

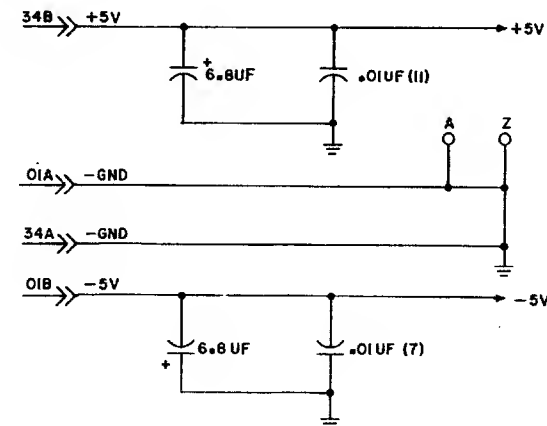
REVISIONS

REV.	ECO.	DESCRIPTION	DWFT.	DATE	CHK'D
A	PE23000	RELEASED	BJE		
B	PE48296	CORRECT DIAGRAMS			
C	PE48402	CORR DIA			
D	PE57173	CHG IC FAMILIES	MF	11-5-80	
E	PE55854	DOWNGRADE BOMBS TO 40MB	MF	11-5-80	
F	DJ22000	XFR FRM PE	JG	72584	
G	DJ00627	CHG JRVV COMP AY	JG	72584	
	DJ7000A	FORMAT CHG			

NOTES:



PINS 2A AND 2B MUST BE LEFT OPEN.
RESERVED FOR THE BK5C1E/F UNITS.
PINS ARE JUMPED ON JUMPER PLUG
SUPPLIED BY CUSTOMER.



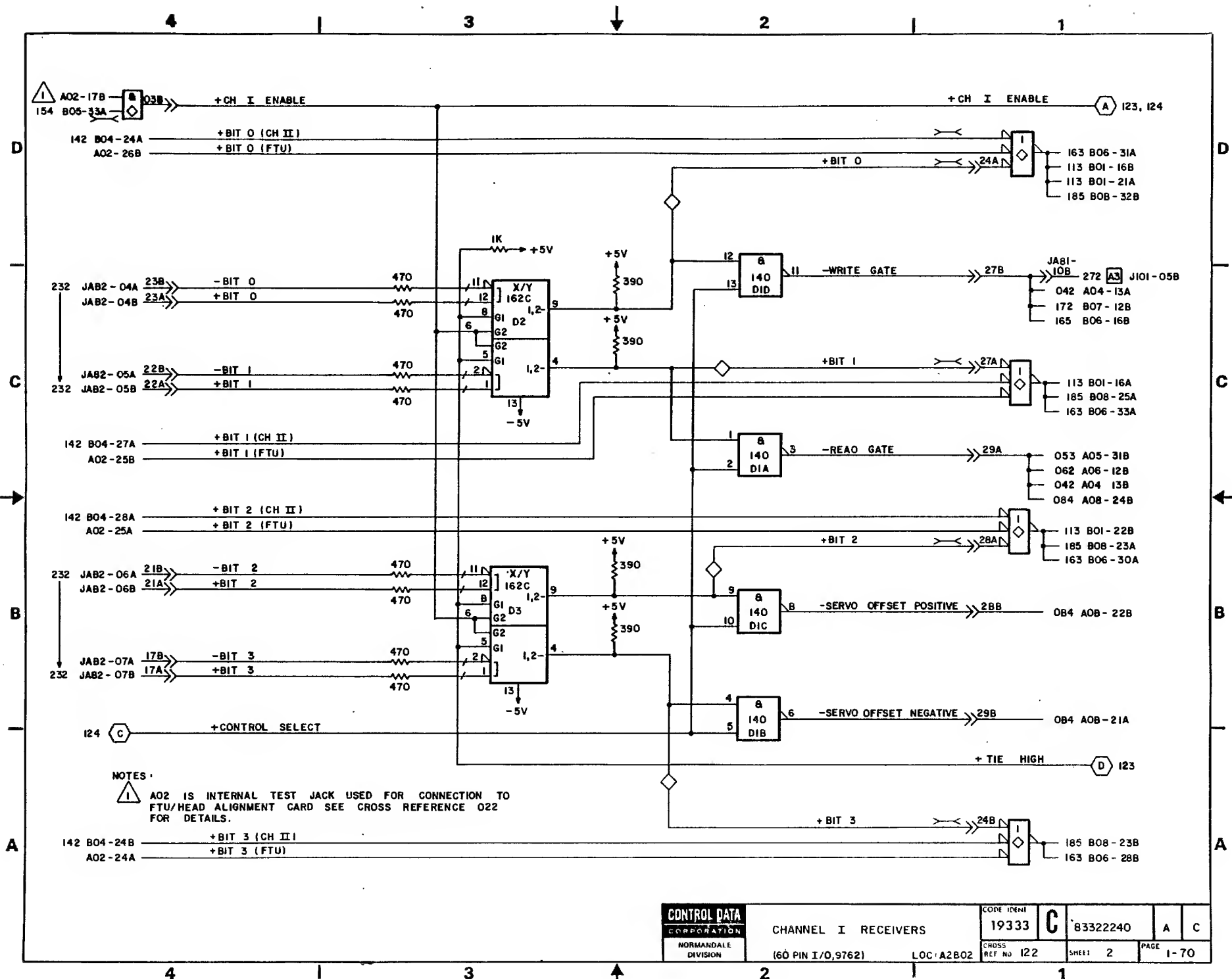
APPLICABLE TO 60 PIN I/O, BK5XX = 9762

THIS DOCUMENT
TRANSFERRED TO
TCD DIVISION
DATE: 7/27/84

DRAWN	8-25-74	CONTROL DATA CORPORATION
CHECKED		
ENGINEER		
APPROVED		

CHANNEL I
RECEIVERS DIAGRAMS
TYPE JRVV
LOC A2B02

CODE IDENT	19333	83322240	Z	G
NO	121	SHEET 1 OF 4	PAGE 1-69	



CONTROL DATA
CORPORATION
NORMANDALE
DIVISION

CHANNEL I RECEIVERS

(60 PIN I/O, 9762)

LOC: A2B02

CODE IDENT

19333

C

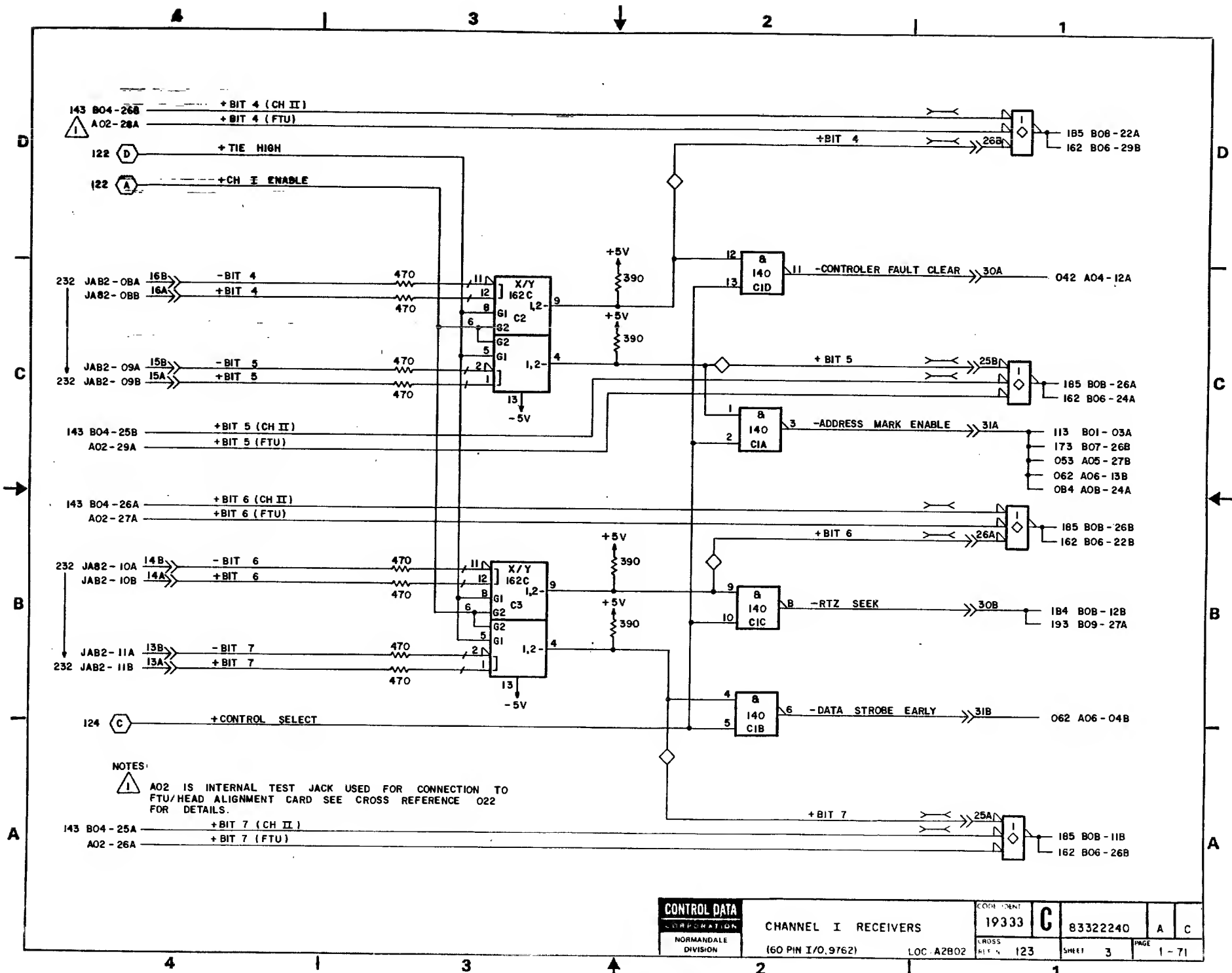
83322240

A C

CROSS
REF NO 122

SHEET 2

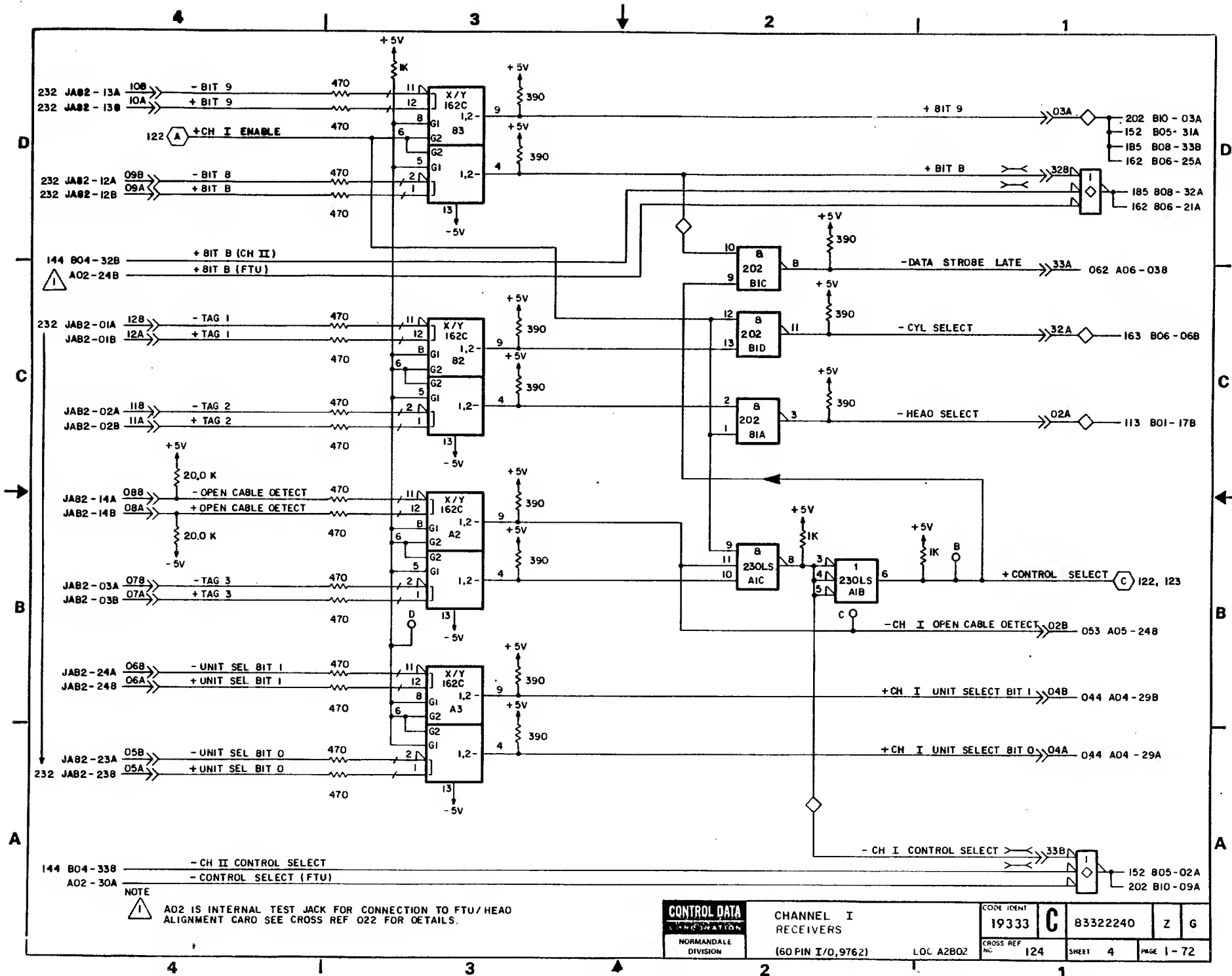
PAGE
1-70

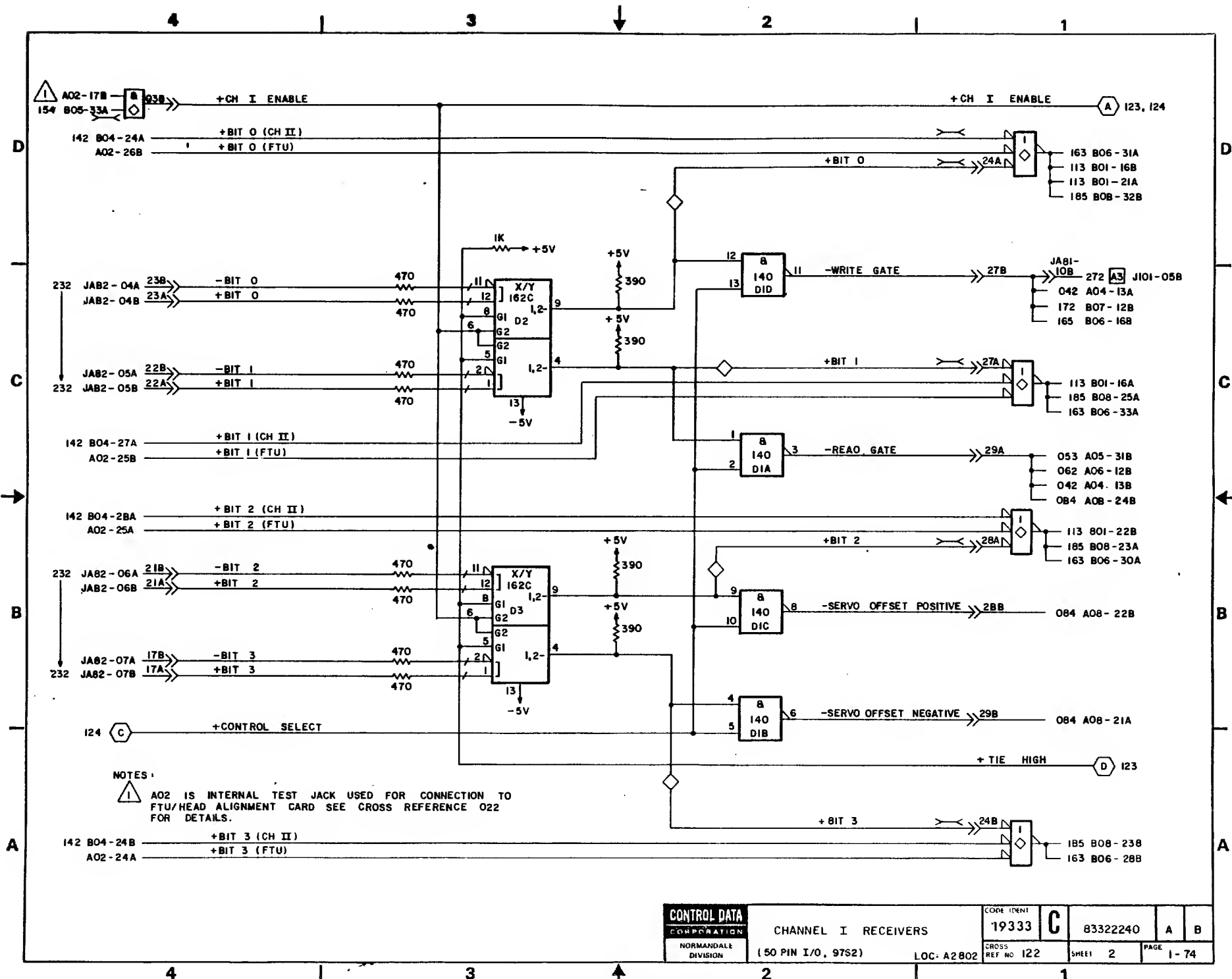


NOTES:

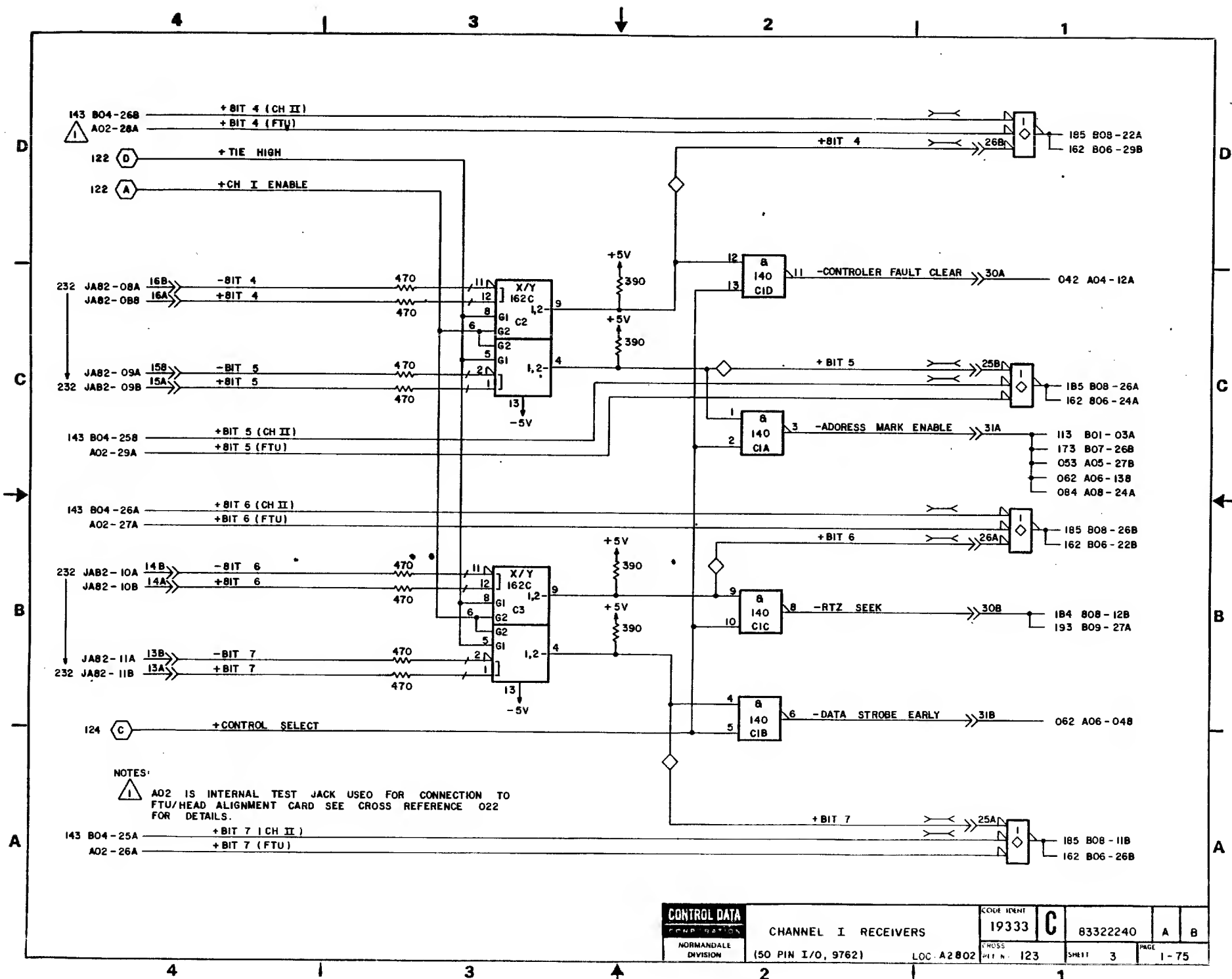


A02 IS INTERNAL TEST JACK USED FOR CONNECTION TO FTU/HEAD ALIGNMENT CARD SEE CROSS REFERENCE 022 FOR DETAILS.





CONTROL DATA CORPORATION		CHANNEL I RECEIVERS		CODE IDENT 19333	C	83322240	A	B
NORMANDELL DIVISION	(50 PIN I/O, 9752)	LOC. A2802	CROSS REF NO 122	SHEET 2				



CONTROL DATA
CORPORATION
NORMANDALE
DIVISION

CHANNEL I RECEIVERS

(50 PIN I/O, 9762)

CODE IDENT

19333

C

83322240

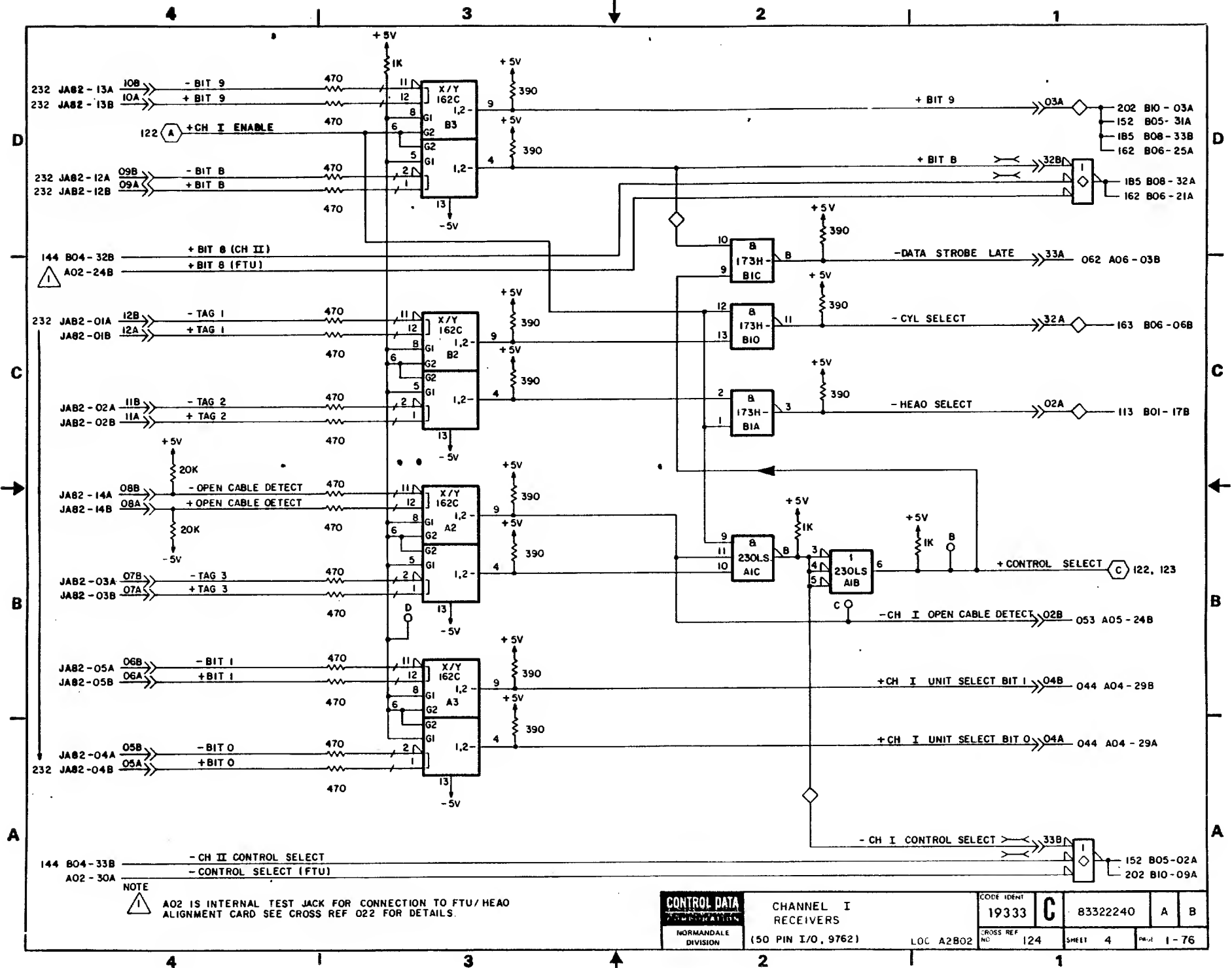
A

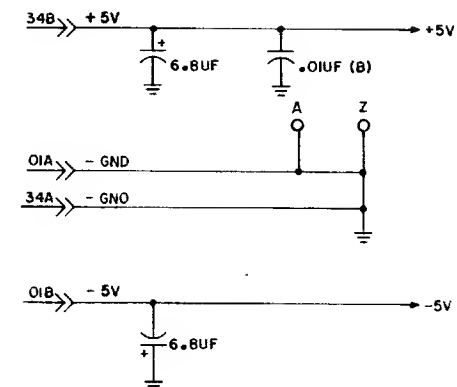
B

CROSS
REF. N. 123

SHEET 3

PAGE 1-75



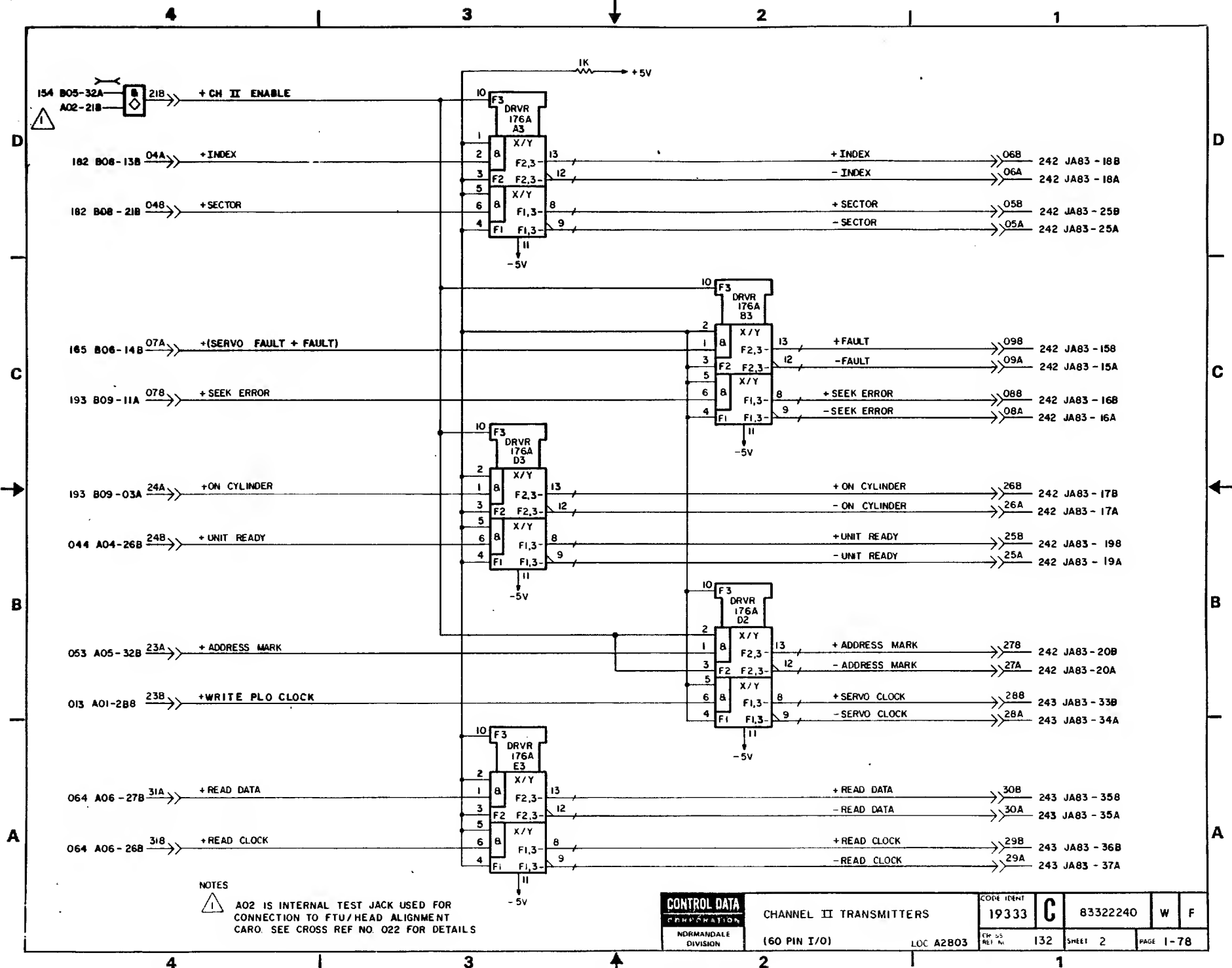
[illegible][illegible]

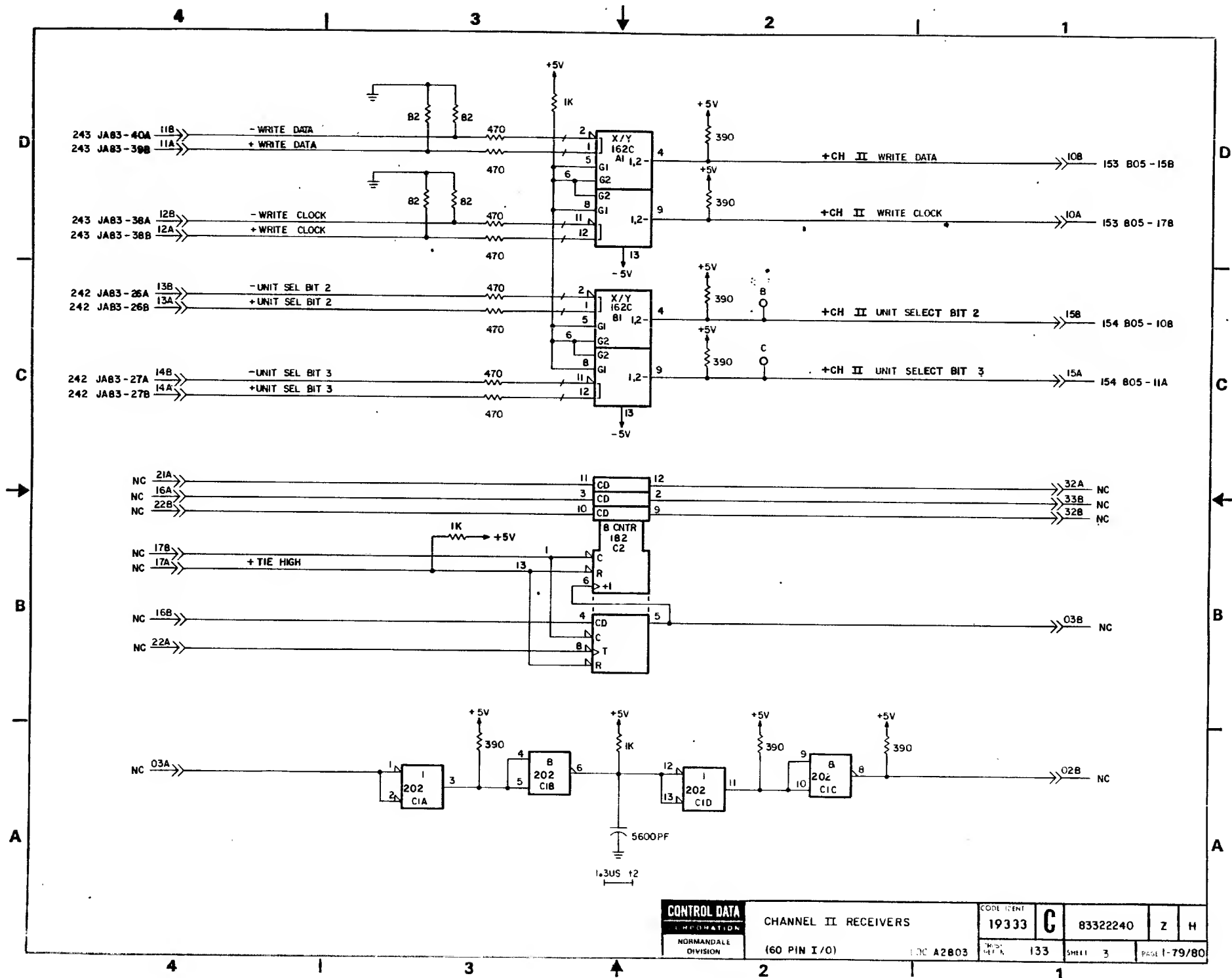
DRAWN	G RABMS	8/19/11
CHECKED		
ENGINEER		
APPROVED		

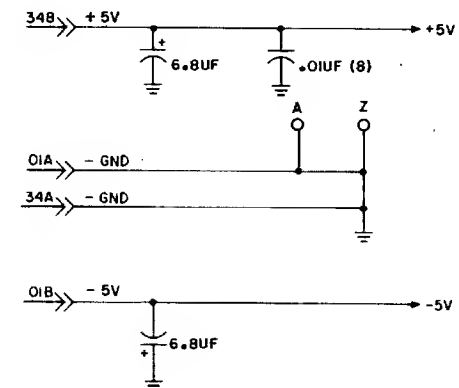
TWIN CITIES
DISK
DIVISION

CHANNEL II TRANSMITTERS AND
RECEIVERS
DIAGRAMS
TYPE FTVV LOC A2B

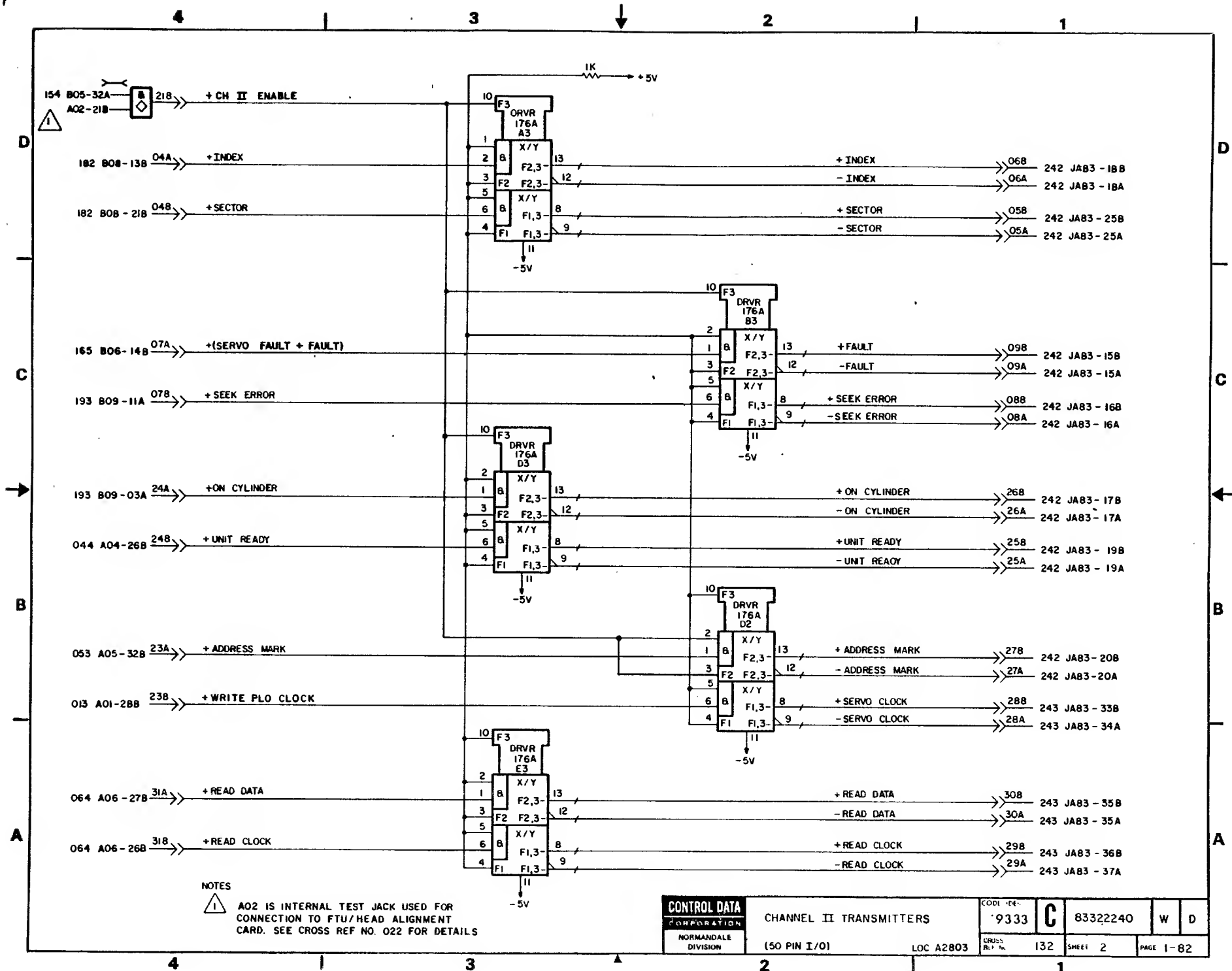
CODE IDENT	C	83322240	Z	H
19333				
CROSS REF NO	131	SHEET 1 OF 3	PAGE 1-77	





[illegible][illegible]

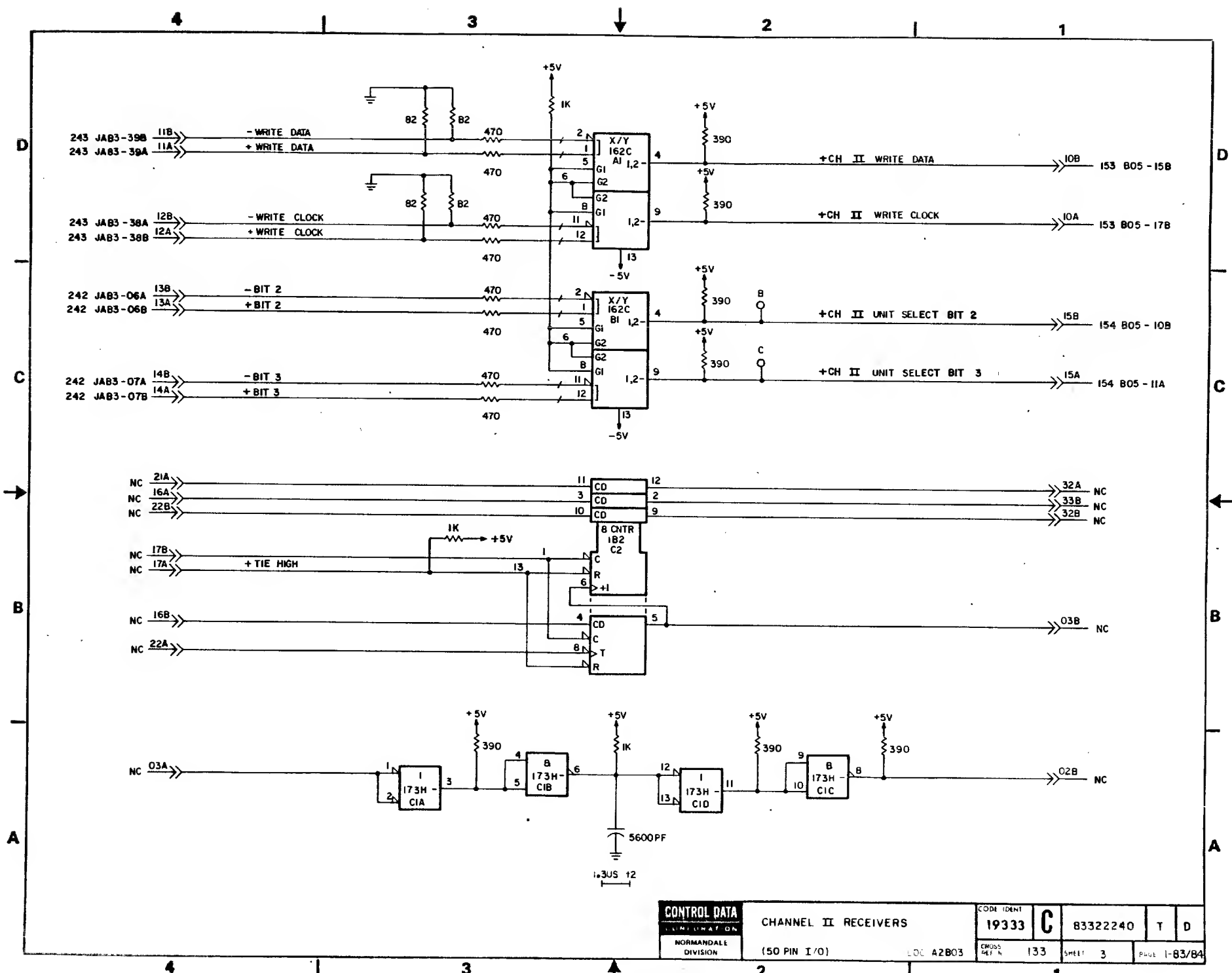
DRAWN	C. R. G. B. N. E. 1972	CONTROL DATA INFORMATION NORMANDALE DIVISION	CHANNEL II TRANSMITTERS AND RECEIVERS DIAGRAMS TYPE JTVV	CODE IDENT	19333	C	83322240	W	E
CHECKED									
ENGINEER									
APPROVED									
			LOC A2B03	CROSS REF NO	131	SHEET	1 of 3	PAGE	1-81



CONTROL DATA
CORPORATION
NORMANDE
DIVISION

CHANNEL II TRANSMITTERS
(50 PIN I/O)

CODE - 9333	C	8332240	W	D
LOC A2803	SHEET 2	PAGE 1-82		



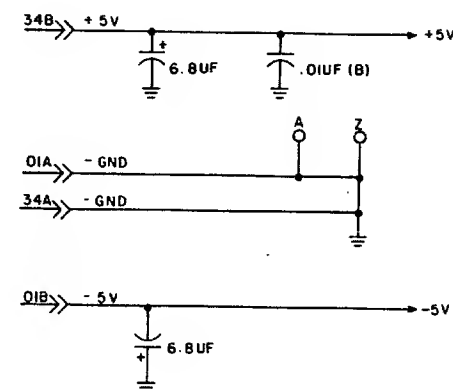
CONTROL DATA NORMANDALE DIVISION	CHANNEL II RECEIVERS		CROSS REF. N.	133	SHEET	3	PAGE	1-83/84
	(50 PIN I/O)		LOC	A2B03				

REVISION STATUS OF SHEETS

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A	A	A																		
B	B	B																		
C	C	B																		
D	D																			

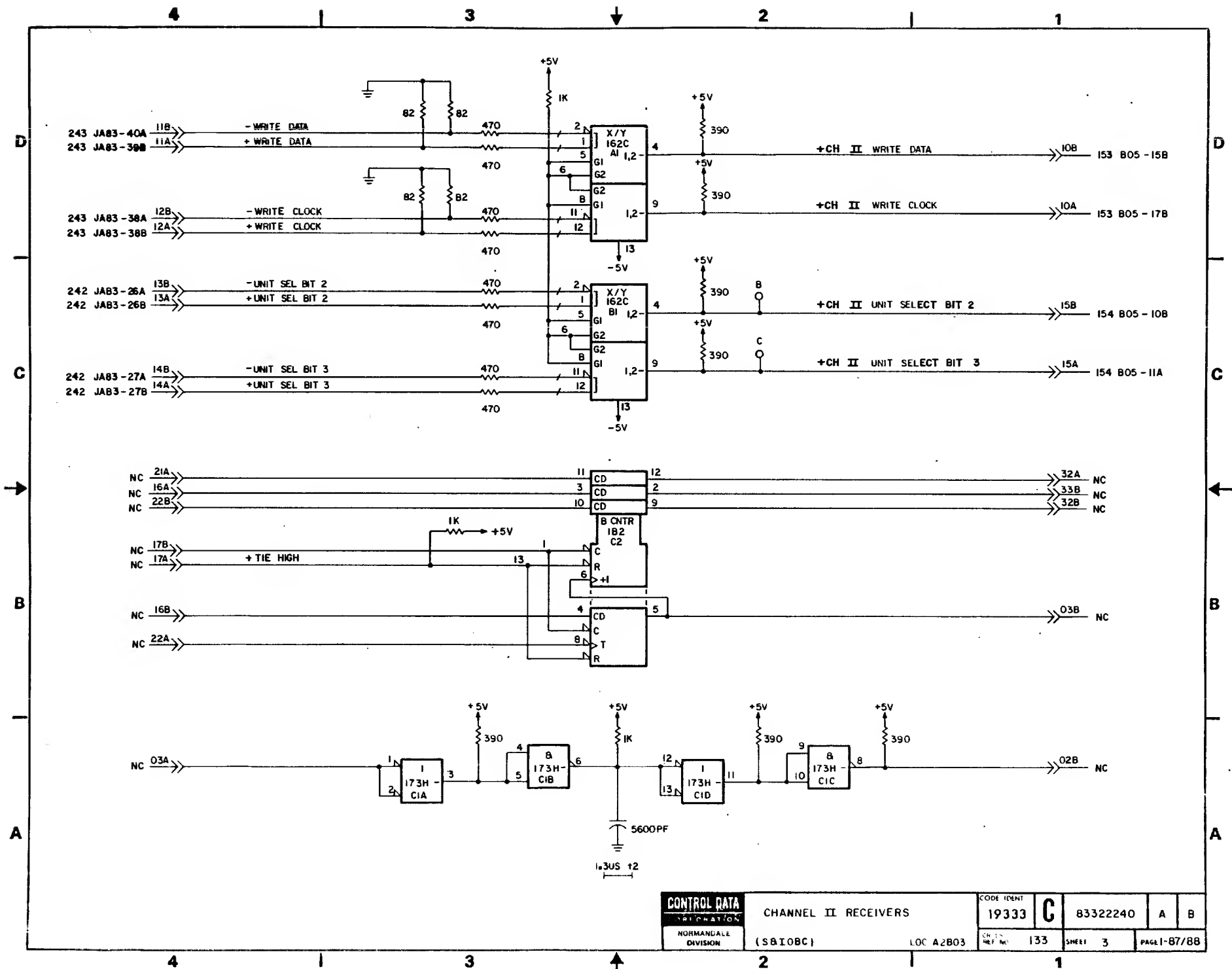
REVISIONS

REV.	ECO	DESCRIPTION	DRFT	DATE	CHK'D
A	PE25000	RELEASED			
B	PE48402	CORRECT DIAGRAM	GR	12-17-76	
C	PE48568	CORR. ERR	DM	7-25-77	
D	DJ00201	PLD CLOCK ERROR	MJ	5-25-82	



APPLICABLE TO INDEX AND SECTOR IN B CABLE.

DRAWN	CHECKED	ENGINEER	APPROVED	MAGNETIC PERIPHERALS INC. <small>A DIVISION OF</small> CONCEPT DATA CORPORATION	CHANNEL II TRANSMITTERS AND RECEIVERS DIAGRAMS		NUMERICAL OPERATIONS C	DWG NO 83322240	CD Y	REV D
					TYPE: GTVV	LOC: A2B03	COEFFICIENT 19333	CROSS REF NO 131	SHEET 1 OF 3	PAGE 1-85



CONTROL DATA
NORMANDALE
DIVISION

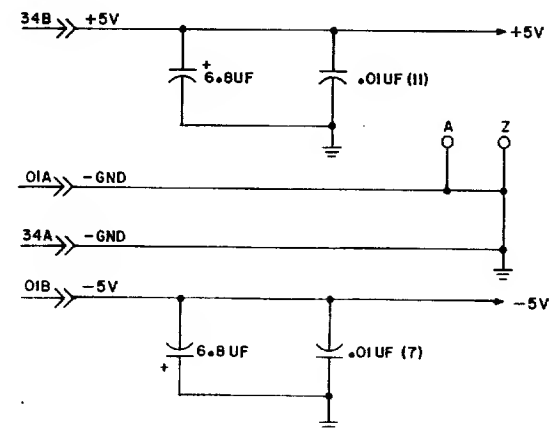
CHANNEL II RECEIVERS
(S8108C)

CODE IDENT	19333	C	83322240	A	B
CH 133	133	SHEET	3	PAGE	1-87/88

REVISION STATUS OF SHEETS																			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A	A	A	A																
B	B	A	B																
C	C	C	C																
D	C	C	D																
E																			
F			F																

UNUSED LOGIC ELEMENTS		
ELEMENT TYPE	LOCATION	OUTPUT PIN(S)
173H	B1B	6
230LS	A1A	12

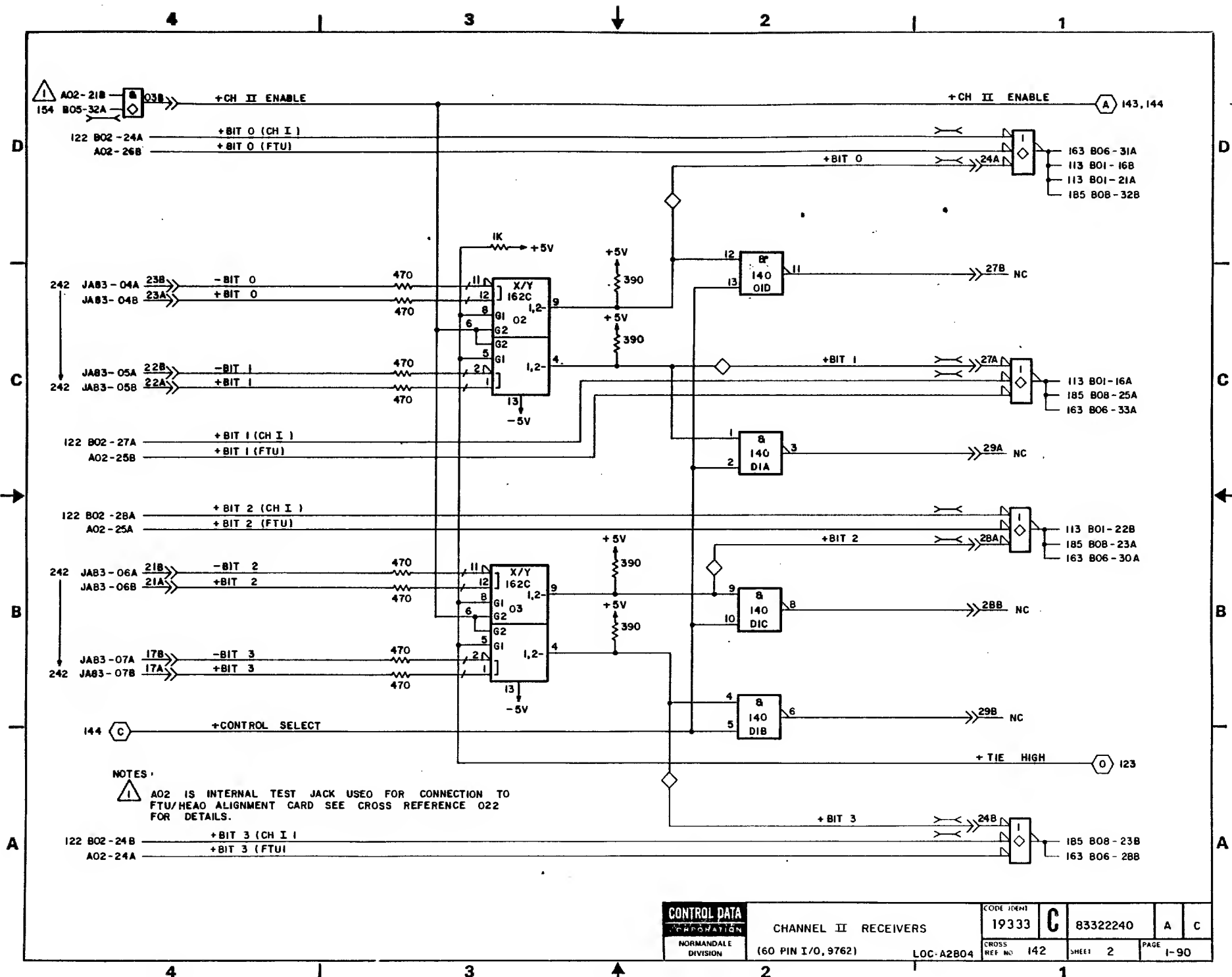
REVISIONS					
REV	ECO	DESCRIPTION	DRFT	DATE	CHK'D
A	PE23000	RELEASED	BJE		
B	PE48296	CORRECT DIAGRAMS	SB	11-2-76	
C	PE48402	CORRECT DIAGRAMS	WEB	12-17-76	
D	PE57173	CHG IC FAMILIES	MF	11-5-80	
E	DJ22000	XFR FRM PE	JG	7/25/84	
F	DJ00627	CHG JRVV COMP AY	JG	7/25/84	
	DJ72000A	FORMAT CHG			

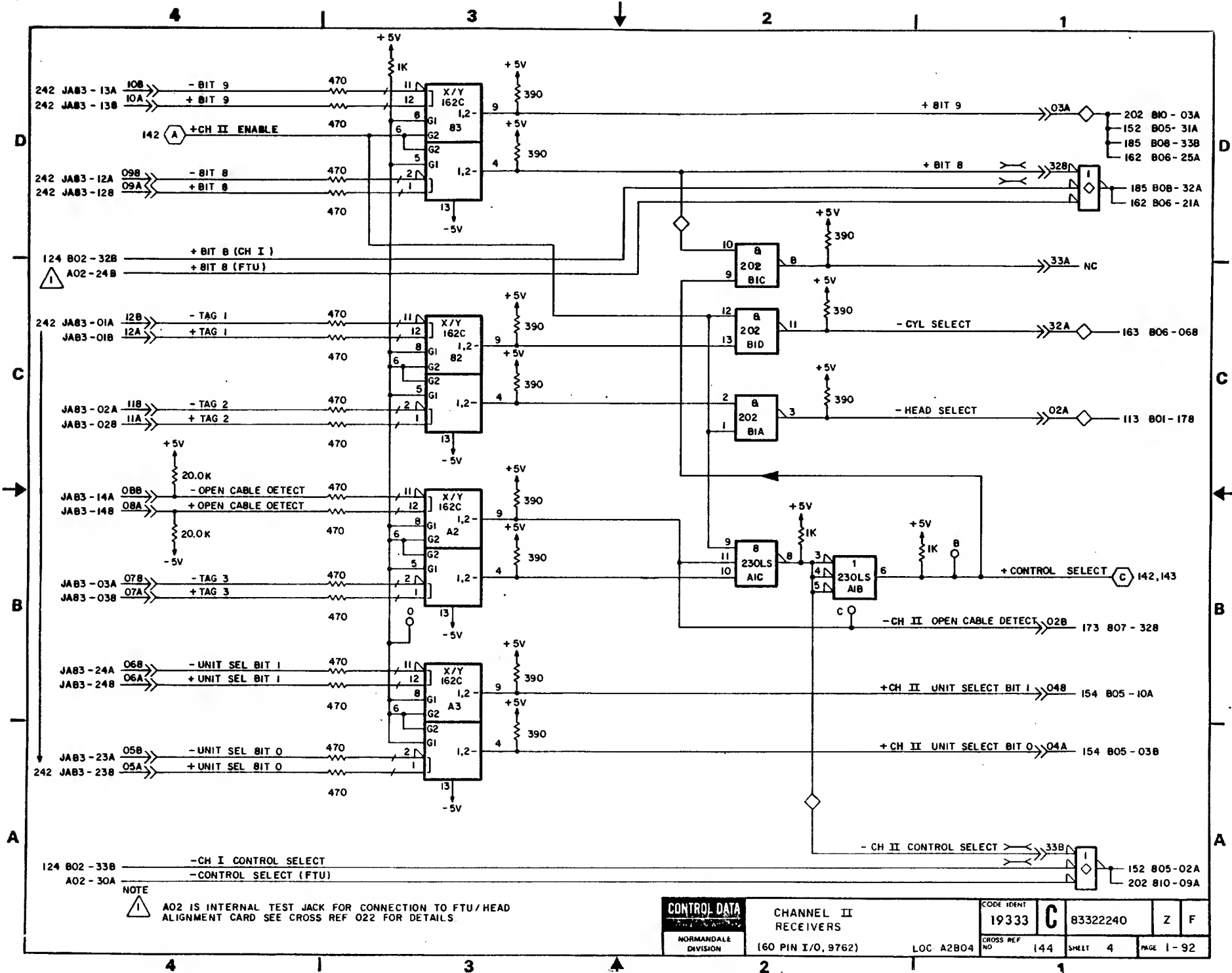


APPLICABLE TO 60 PIN I/O, BK5XX = 9762

THIS DOCUMENT
TRANSFERRED TO
TCD DIVISION
DATE: 7/27/84

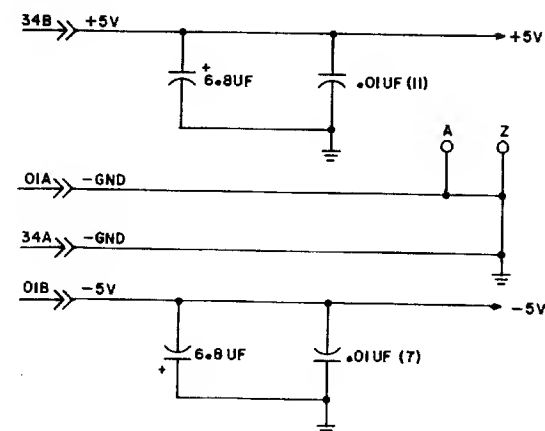
INSTR.	NO. 18	DATE	7/27/84	CONTROL DATA CORPORATION	CHANNEL II RECEIVERS DIAGRAMS	CODE IDENT 19333	83322240	Z	F
TWIN CITIES DISK DIVISION				TYPE JRVV	LOC A2B04	PAGE 1-89		REF 83214814	



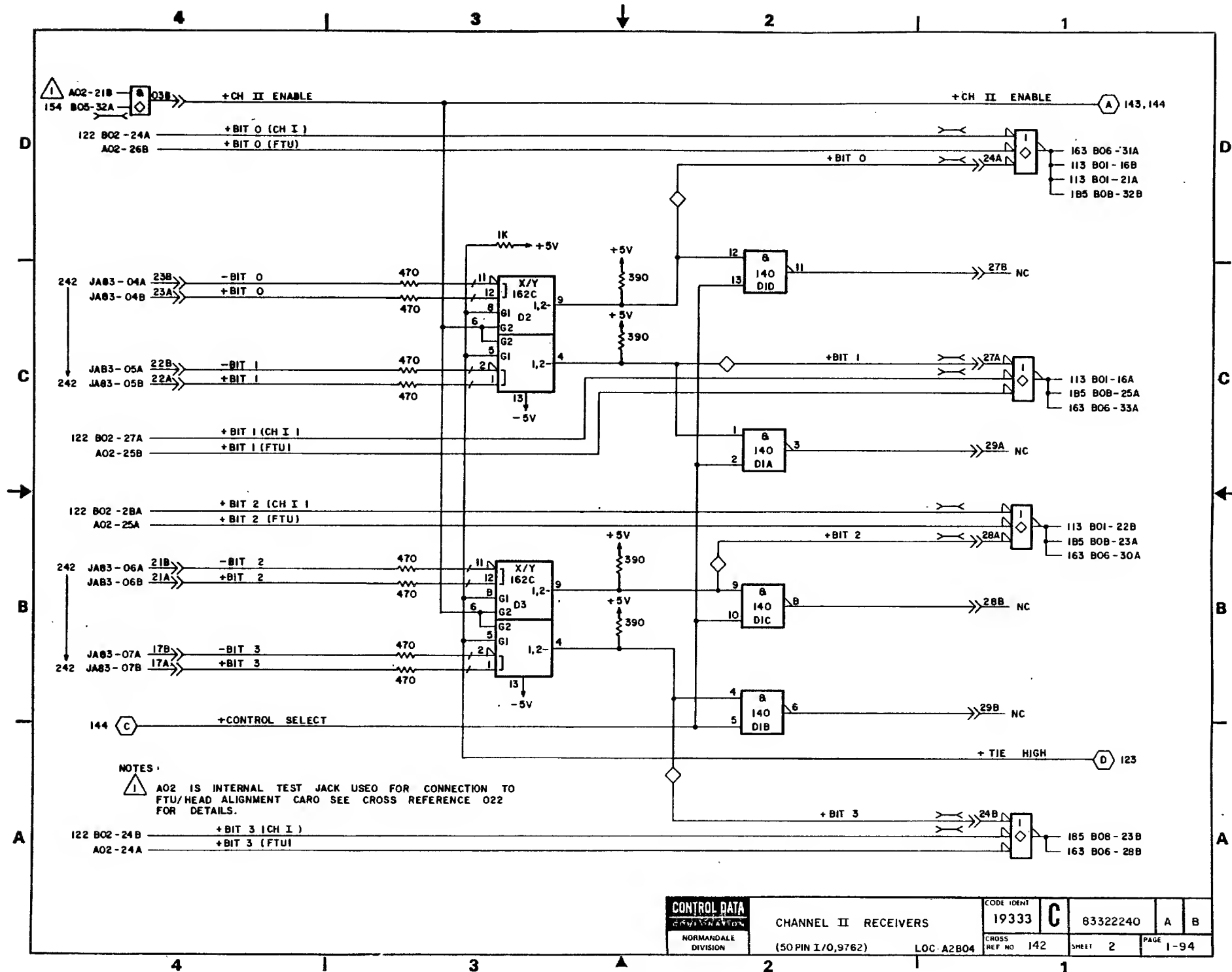


[illegible][illegible]

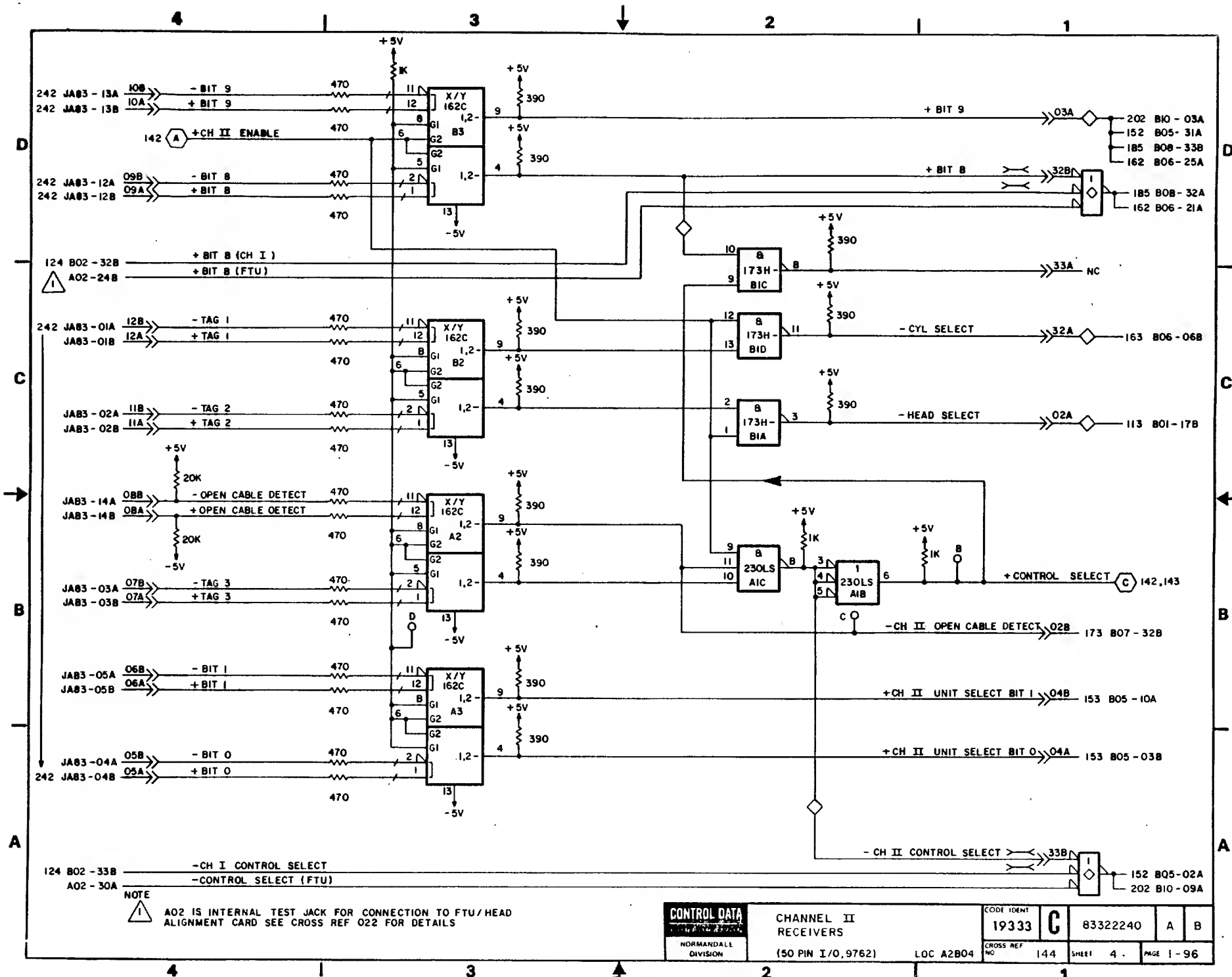
ELEMENT TYPE	LOCATION	OUTPUT PIN(S)
173H	BIB	6
230LS	A1A	12



1. NAME 2. CHECKED 3. IN FILE 4. DATE		CONTROL DATA CORPORATION NORMANDALL DIVISION	CHANNEL II RECEIVERS DIAGRAMS TYPE JRVV A2B04	CODE IDENT 19333	C	83322240	K	B
				141		14		1-93



CONTROL DATA NORMANDALE DIVISION	CHANNEL II RECEIVERS		CODE IDENT 19333	C	83322240	A	B
	(50 PIN I/O, 9762)	LOC: A2B04	CROSS REF NO 142	SHEET 2	PAGE 1-94		



CONTROL DATA
NORMANDALL
DIVISION

**CHANNEL II
RECEIVERS**
(50 PIN I/O, 9762)

CODE IDENT
19333

C

83322240

A B

CROSS REF
NO

144

SHEET 4

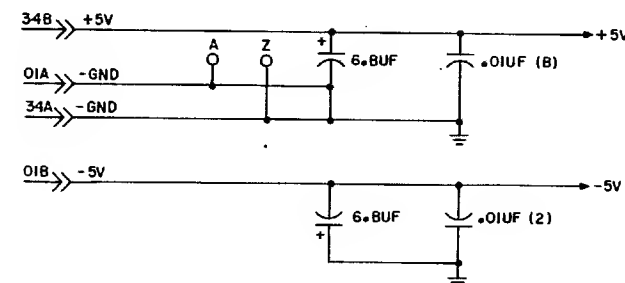
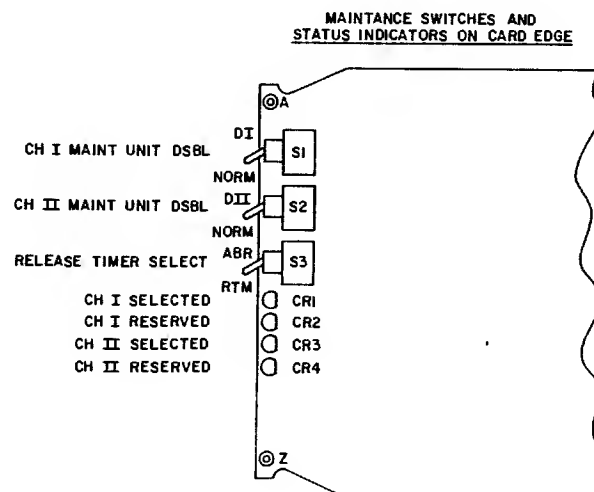
PAGE 1-96

LOC A2B04

REVISION STATUS OF SHEETS																				
I	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
A	A	A	A																	
B	A	A	B																	
C	C	C	C																	
D	C	C	D																	
E	E	E	E																	
F	E	E	F																	
G	G	E	F																	

REVISIONS									
REV	ECO	DESCRIPTION	DWFT	DATE	CHK'D				
A	PE23000	RELEASED	GR						
B	PE48296	CORRECT DIAGRAMS	SB	11-2-76					
C	PE48402	CORRECT DIAGRAMS	GR	12-17-76					
D	PE48560	W/W CHANGE	GR	5-10-77					
E	PE48437	CHG AKHV TO BKHV	GR	5-10-77					
F	PE48568	CORR ERR	DM	7-25-77					
G	PE48716	CHG BKHV TO EKHV CARD	MA	10-20-77					

UNUSED LOGIC ELEMENTS		
ELEMENT TYPE	LOCATION	OUTPUT PIN(S)
905	B1A	3
201	C2	6,8
201	D3A	3
146	E2F	12



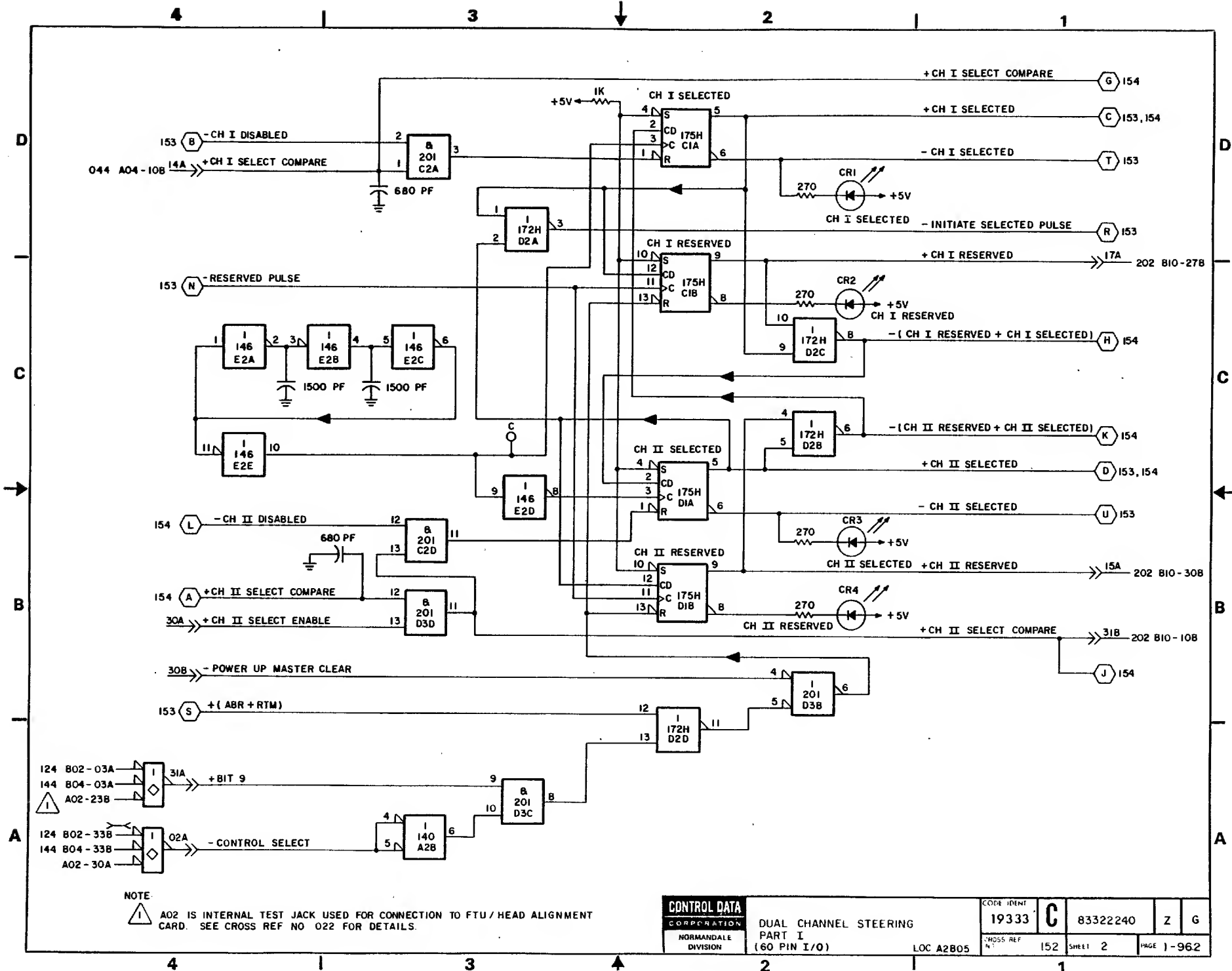
NOTE:

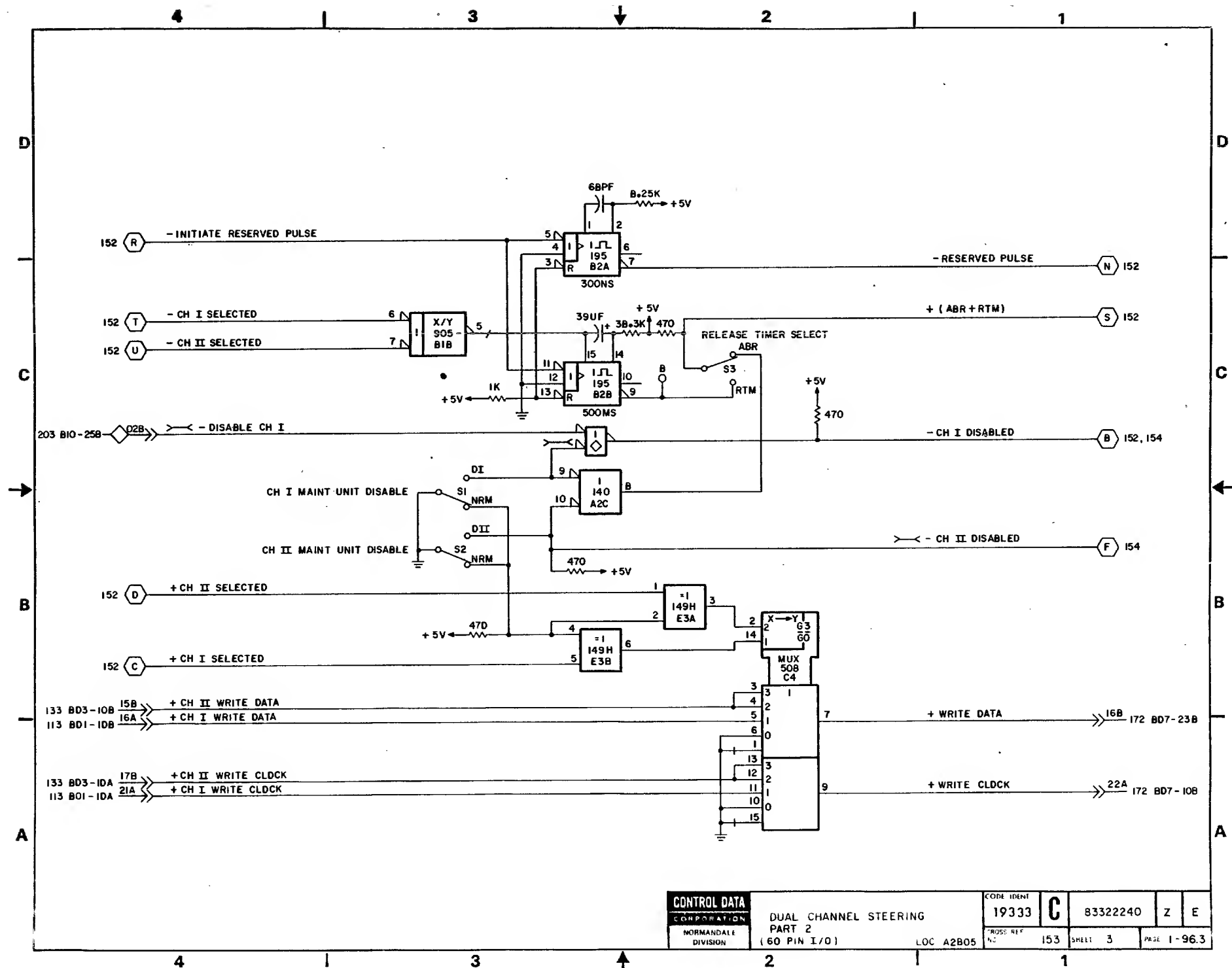
1. ON SINGLE CHANNEL UNITS B05 IS A JUMPER PLUG

152 B05 - 14A → 154 B05 - 33A
 153 B05 - 16A → 153 B05 - 16B
 153 B05 - 21A → 153 B05 - 22A
 154 B05 - 06A → 154 B05 - 06B
 154 B05 - 07A → 151 B05 - 01A

THIS SET USED ON EKHV REV A (60 PIN I/O)

DRAWN	G. RABINE	3-27-76	CONTROL DATA CORPORATION	DUAL CHANNEL STEERING DIAGRAMS	CODE IDENT	19333	C	83322240	Z	G
CHECKED					CROSS REF NO.	151	SHEET	1 of 4	PAGE	1-96.1
ENGINEER			NORMANDEALE DIVISION	TYPE EKHV	LOC	A2B05				
APPROVED										

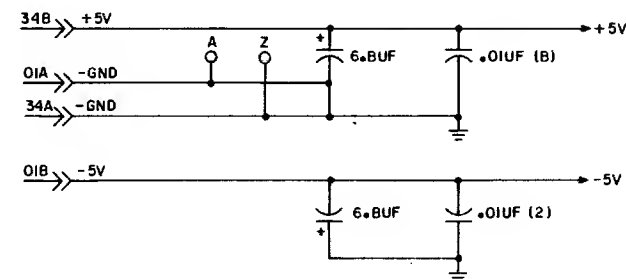
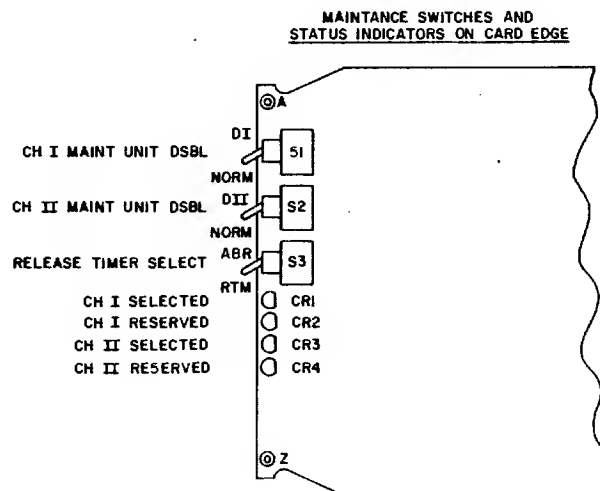




REVISION STATUS OF SHEETS																			
I	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A	A	A	A																
B	A	A	B																
C	C	C	C																
D	D	D	D																
E	E	E	E																
F	E	E	F																
G	G	E	F																
H	H	H	F																
J	J	H	F																
K	K	K	K																

REVISIONS					REV	ECO	DESCRIPTION	DWFT	DATE	CHK'D
A	PE23000	RELEASED	GR	1/1/74						
B	PE48296	ERR CORR	MA	6/9/76						
C	PE48402	ERROR CORRECTIONS	WG	1-6-77						
D	PE48437	CARD CHANGE AKHV TO BKHV	SB	2-24-77						
E	PE48560	ADD GROUND TO INPUT PIN	SB	4-22-77						
F	PE48568	ENABLE/DISABLE ERROR CORRECTION	SB	4-26-77						
G	PE48718	BKHV TO EKHV	MA	3-8-78						
H	PE55608	EKHV M.V. CHANGE	MA	2-8-79						
J	PE57878	ADD WIRE INFO TO LOGIC	CB	2-15-80						
K	PE60242	CHG IC'S ON EKHV AT	MJ	5-26-82						

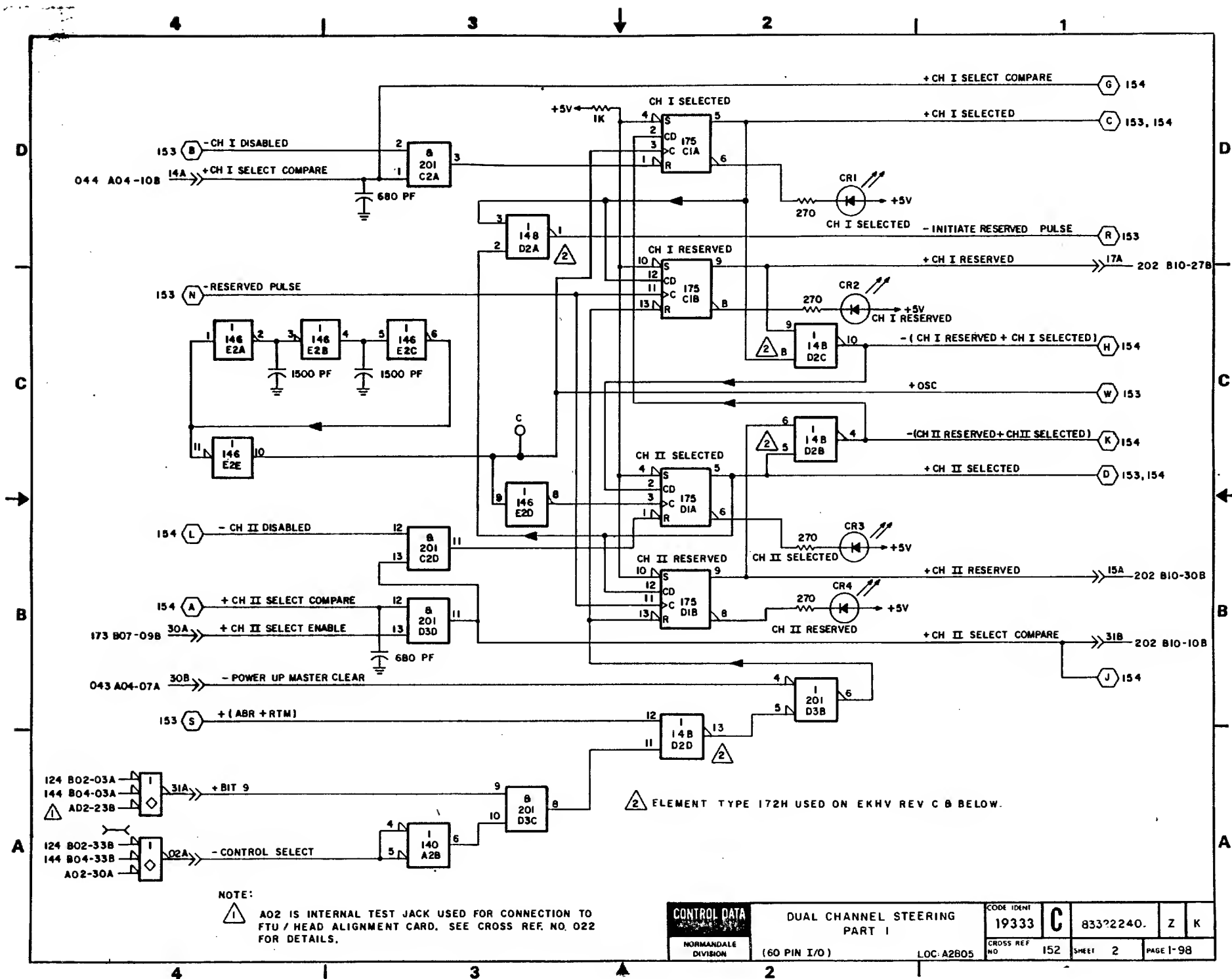
UNUSED LOGIC ELEMENTS		
ELEMENT TYPE	LOCATION	OUTPUT PIN(S)
201	C2	8
201	D3A	3

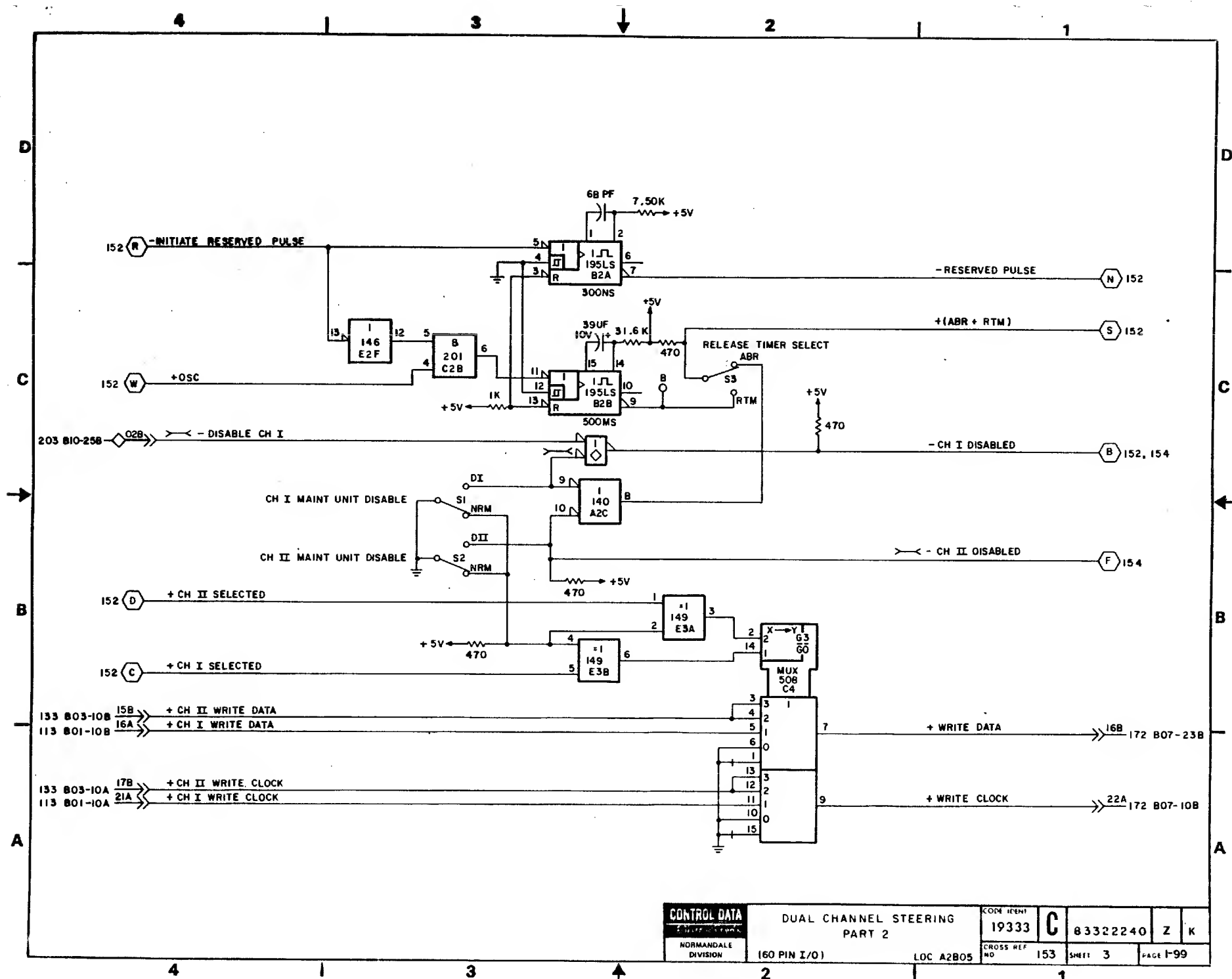


NOTE:
 I. ON SINGLE CHANNEL UNITS B05 IS A JUMPER PLUG
 152 B05 - 14A → 154 B05 - 33A
 153 B05 - 16A → 153 B05 - 16B
 153 B05 - 21A → 153 B05 - 22A
 154 B05 - 06A → 154 B05 - 06B
 154 B05 - 07A → 151 B05 - 01A

THIS SET USED ON EKHV REV B & ABOVE (60 PIN I/O)

NAME	G. RABINE	DATE	8-22-82	CONTROL DATA CORPORATION	DUAL CHANNEL STEERING DIAGRAMS	CODE IDENT	19333	DWG NO	83322240	CL	Z	REV	K
DESIGN		APPROV		NORMANVILLE DIVISION	TYPE EKHV	LOC	A2B05	SHEET	1 OF 4	PAGE	1-97		





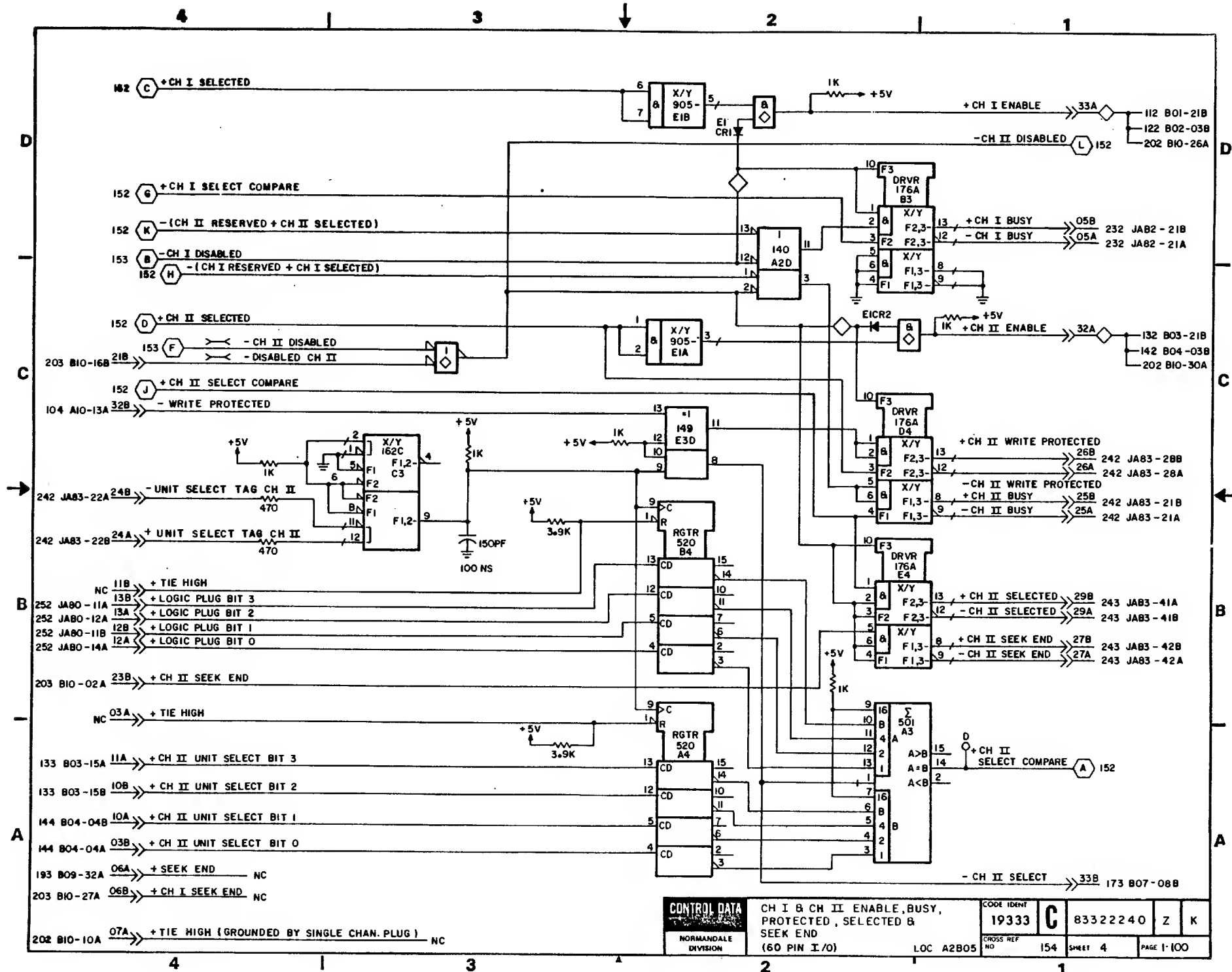
CONTROL DATA
NORMANDALE
DIVISION

DUAL CHANNEL STEERING PART 2

(160 PIN I/O)

LOC A2B05

CODE IDENT 19333	C	83322240	Z	K
CROSS REF NO 153	SHEET 3	PAGE 1-99		



CONTROL DATA
NORMANDALE
DIVISION

CH I & CH II ENABLE, BUSY,
PROTECTED, SELECTED &
SEEK END
(60 PIN I/O)

CODE IDENT
19333

C 83322240 Z K
CROSS REF
154
SHEET 4
PAGE 1/100

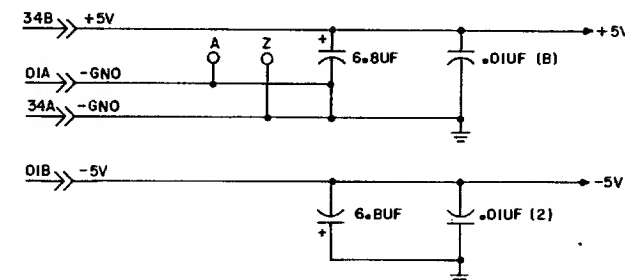
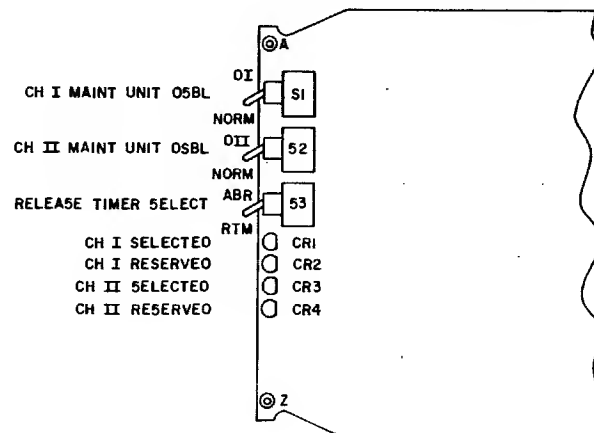
REVISION STATUS OF SHEETS																			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A	A	A	A																
B	B	B	B																
C	B	B	C																
D	D	D	D																
E	D	D	E																
F	F	D	E																

REVISIONS					
REV	ECO	DESCRIPTION	DRFT	DATE	CHK'D
A	PE23000	RELEASED	GR		
B	PE48402	CORR DIA			
C	PE48560	W/ W CHG	GR	5 10 77	
D	PE48437	CHANGE AKHV TO BKHV	GR	5 10 77	
E	PE48568	CORR DIAG	DM	7 25 77	
F	PE48716	CHG BKHV TO EKHV	MA	10-20-77	

UNUSED LOGIC ELEMENTS

ELEMENT TYPE	LOCATION	OUTPUT PIN(S)
905	B1A	3
201	C2	6,8
201	D3A	3
146	E2F	12

MAINTANCE SWITCHES AND STATUS INDICATORS ON CARD EDGE



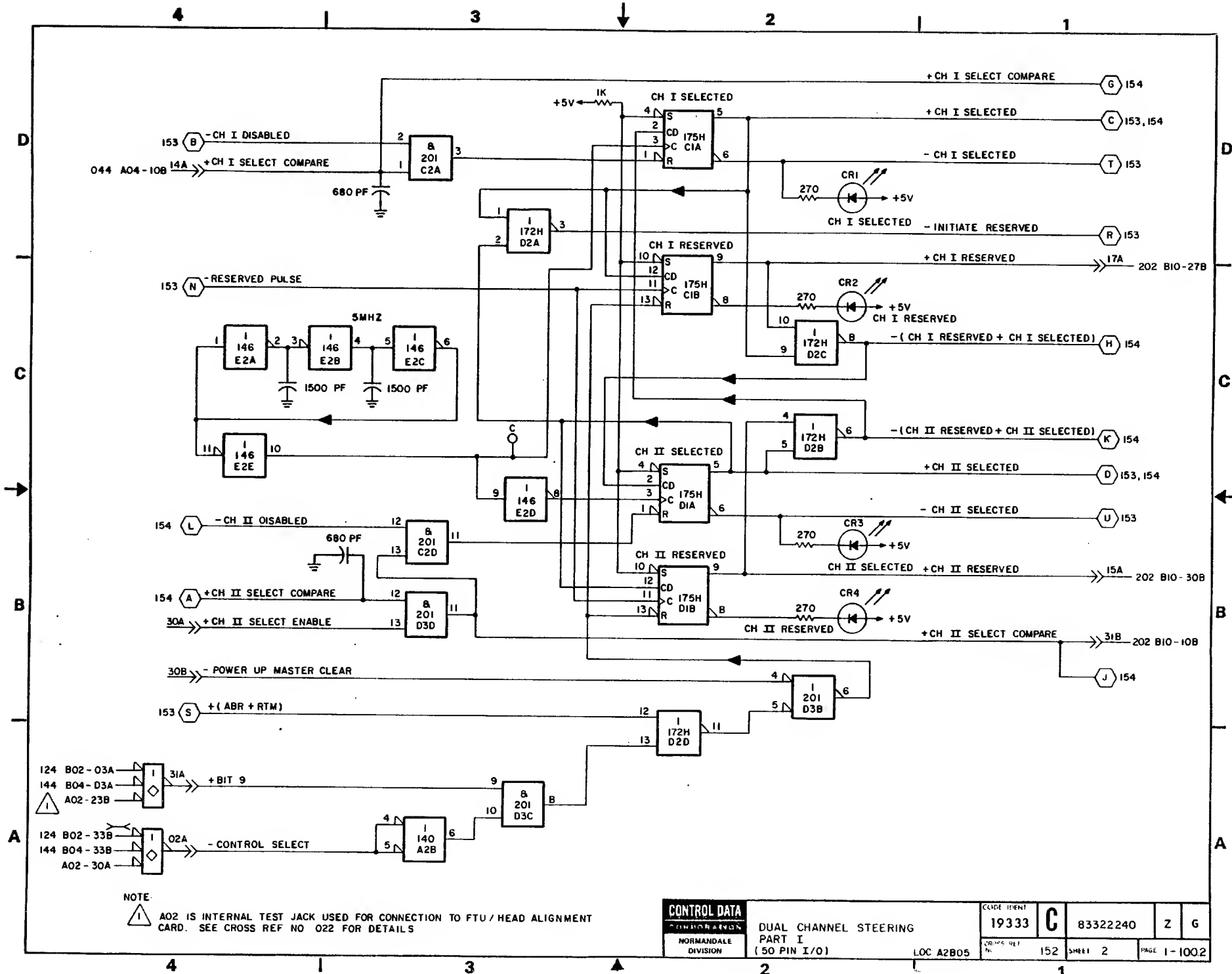
NOTE

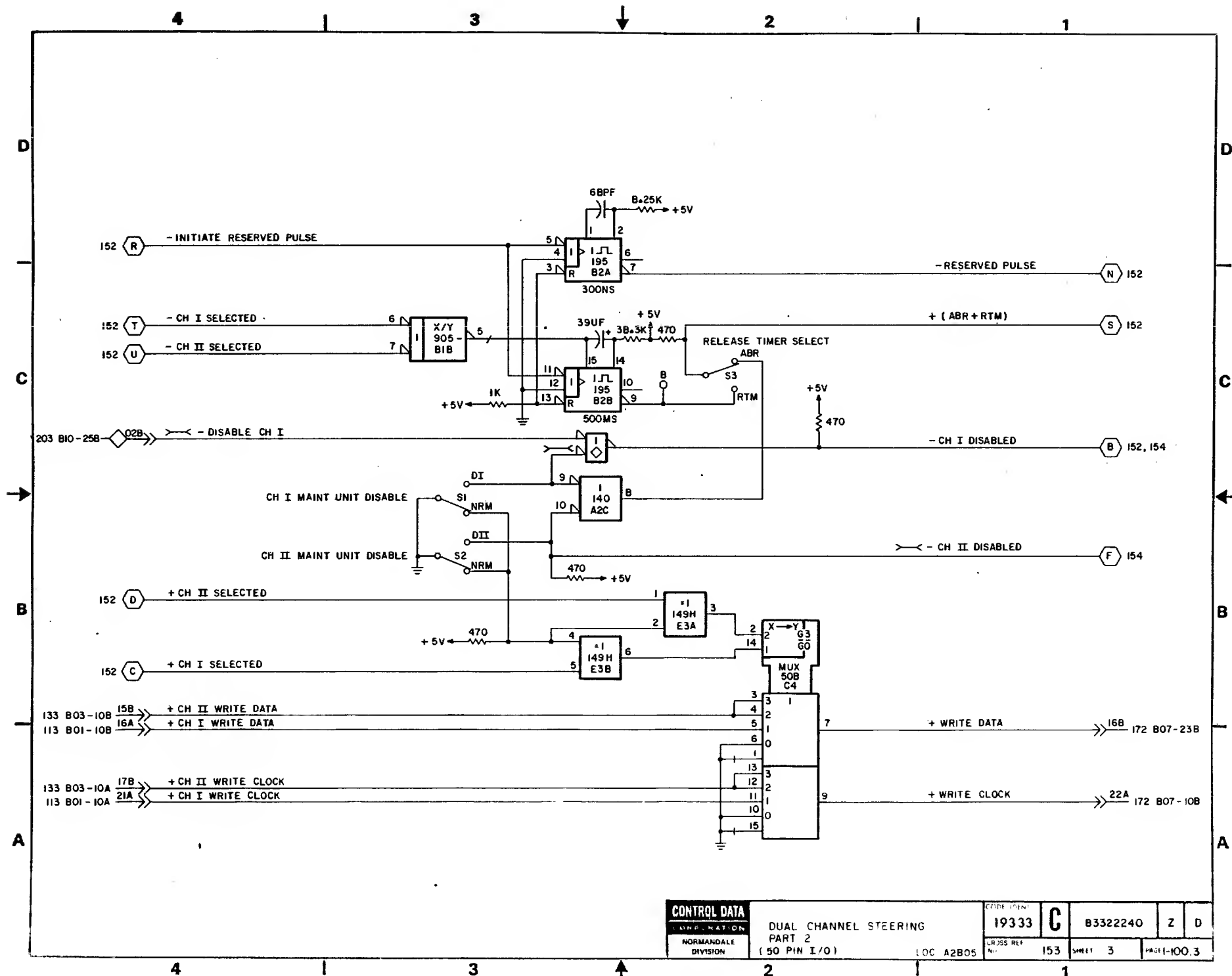
- ON SINGLE CHANNEL UNITS B05 IS A JUMPER PLUG
 - 152 B05 - 14A → 154 B05 - 33A
 - 153 B05 - 16A → 153 B05 - 16B
 - 153 B05 - 21A → 153 B05 - 22A
 - 154 B05 - 06A → 154 B05 - 06B
 - 154 B05 - 07A → 151 B05 - 01A

THIS SET USED ON EKHV REV A (50 PIN I/O)

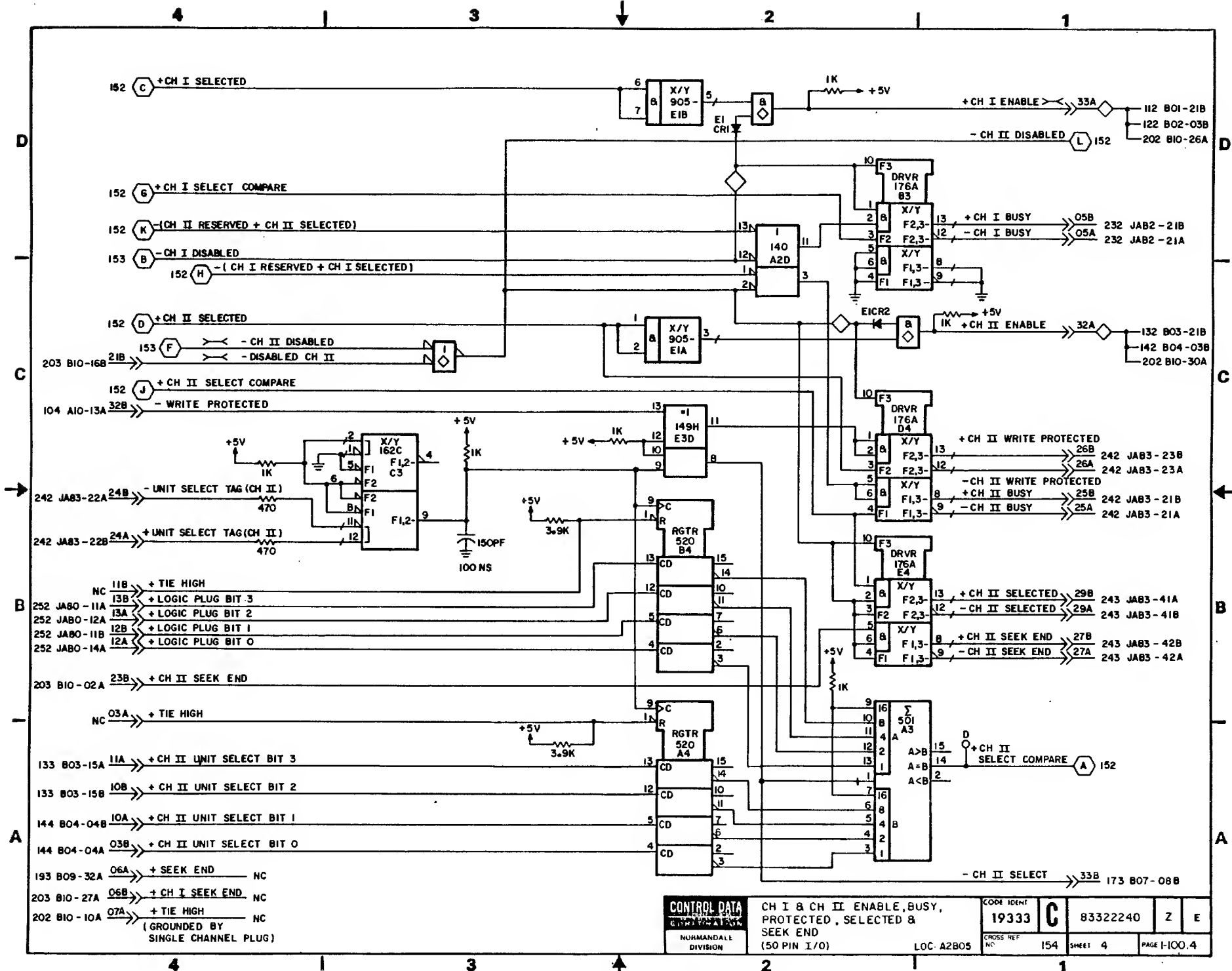
DRAWN	1. B. J. J.	CONTROL DATA	CODE IDENT	19333	C	83322240	Z	F
CHECKED		CONNECTION						
ENGINEER		NORMANDALL DIVISION	DUAL CHANNEL STEERING DIAGRAMS					
APPROVED			TYPE: EKHV	LOC A2B05	CHDS REF	151	SHEET 1 of 4	PAGE 1-100.1

REF 83214B40





CONTROL DATA		CODE IDENT		B3322240		Z D	
NORMANDALE DIVISION		19333 C		153		3	
DUAL CHANNEL STEERING		PART 2		LOC A2B05		PAGE 1-100.3	
(50 PIN I/O)							



REVISION STATUS OF SHEETS

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A	A	A	A	A																
B	B	B	B	B																
C	C	C	C	C																
D	D	D	D	D																
E	E	D	D	E																
F	F	F	D	E																
G	G	G	G	E																
H	H	H	G	E																

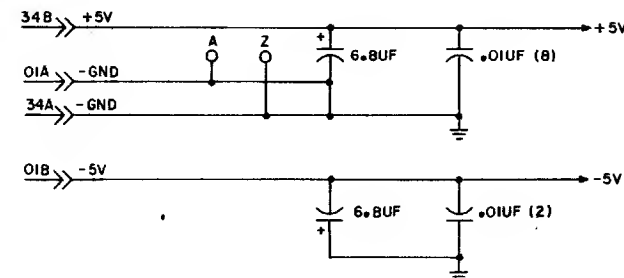
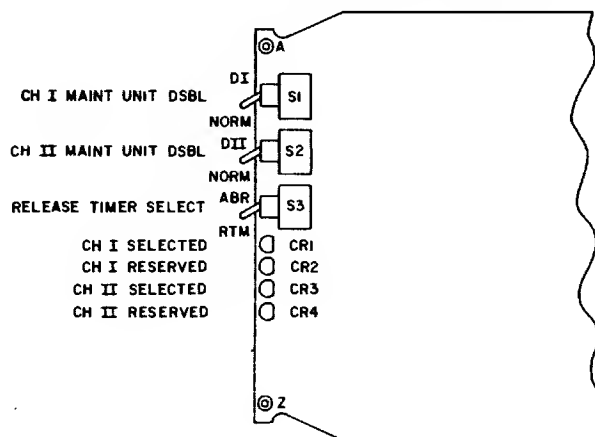
REVISIONS

REV.	ECO.	DESCRIPTION	DRFT	DATE	CHK'D
A	PE23000	RELEASED	GR	1-12-77	EC
B	PE48402	ERROR CORRECTIONS	VG	1-12-77	
C	PE48437	CARD CHANGE AKHV TO BKHV	SB	2-24-77	
D	PE48560	ADD GROUND TO INPUT PIN	SB	4-22-77	
E	PE48568	ENABLE / DISABLE ERROR CORRECTION	SB	4-26-77	
F	PE48716	BKHV TO EKHV	MA	5-8-78	
G	PE55608	EKHV M.V. CHANGE	MA	2-8-79	
H	PE57278	ADD WIRE INFO. TO LOGIC	CB	2-15-80	MD
J	PE60242	CHG I.C.'s ON EKHV AT	NJ	5-30-83	

UNUSED LOGIC ELEMENTS

ELEMENT TYPE	LOCATION	OUTPUT PIN(S)
201	C2	8
201	D3A	3

MAINTANCE SWITCHES AND STATUS INDICATORS ON CARD EDGE

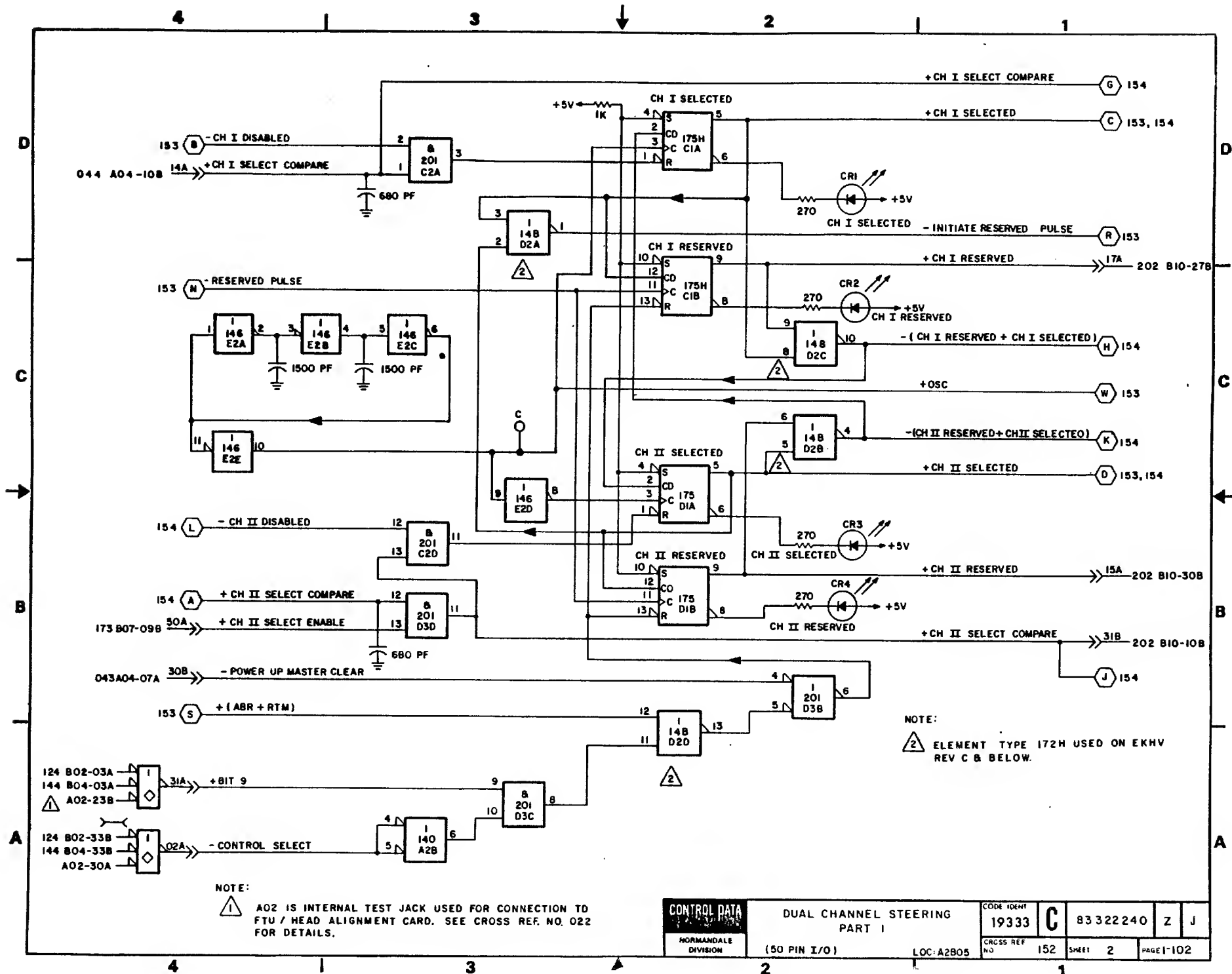


NOTE

- ON SINGLE CHANNEL UNITS B05 IS A JUMPER PLUG
 - 152 B05 - 14A → 154 B05 - 33A
 - 153 B05 - 16A → 153 B05 - 16B
 - 153 B05 - 21A → 153 B05 - 22A
 - 154 B05 - 06A → 154 B05 - 06B
 - 154 B05 - 07A → 151 B05 - 01A

THIS SET USED ON EKHV REV B & ABOVE (50 PIN I/O)

DRAWN	6 Bengtson	10-5-73	CONTROL DATA CORPORATION NORMANDALE DIVISION	DUAL CHANNEL STEERING DIAGRAMS TYPE EKHV	CODE IDENT	19333	C 83322240	Z	J
CHECKED					SHEET	1 of 4		PAGE	1-101
ENGINEER	W. K. Norman	6/6/78			LOC	A2B05		REF	83214840
APPROVED									



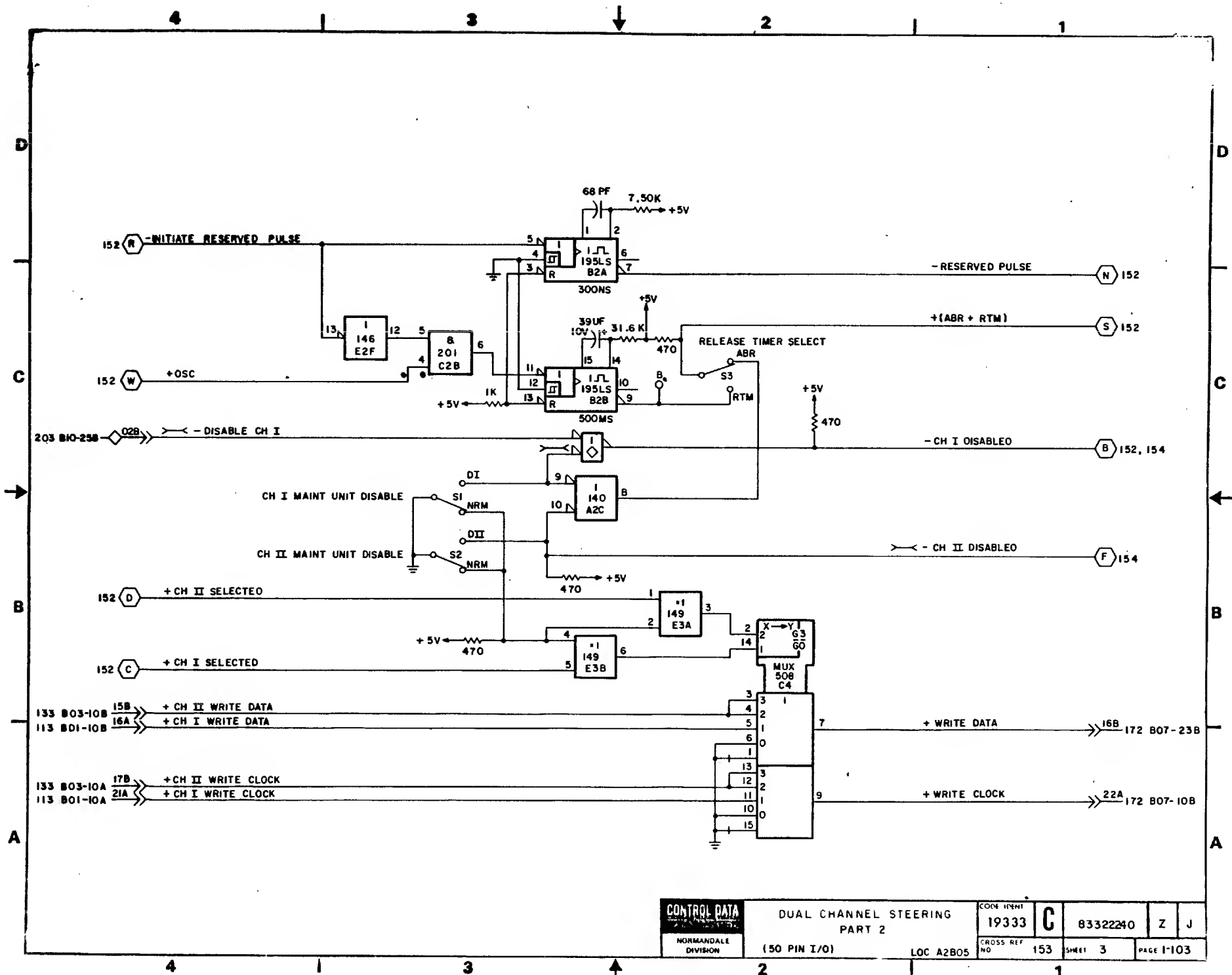
CONTROL DATA
 NORMANDALE
 DIVISION

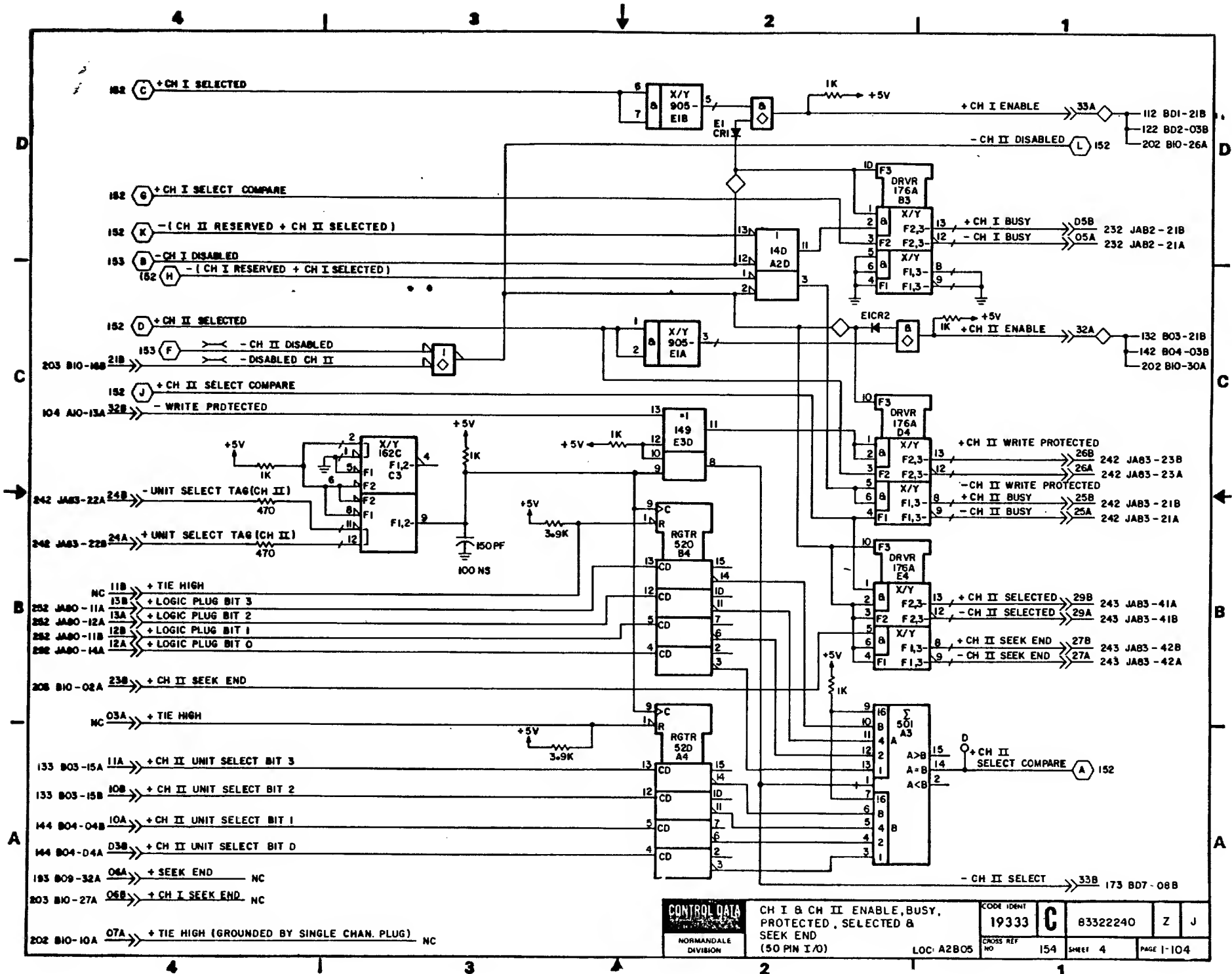
DUAL CHANNEL STEERING
 PART I

(50 PIN I/O)

LOC: A2B05

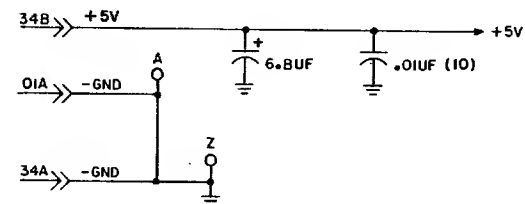
CODE IDENT	19333	C	83 322 240	Z	J
CROSS REF NO	152	SHEET	2	PAGE	1-102





[illegible]

ELEMENT TYPE	LOCATION	OUTPUT PIN(S)
200	A1	8,10

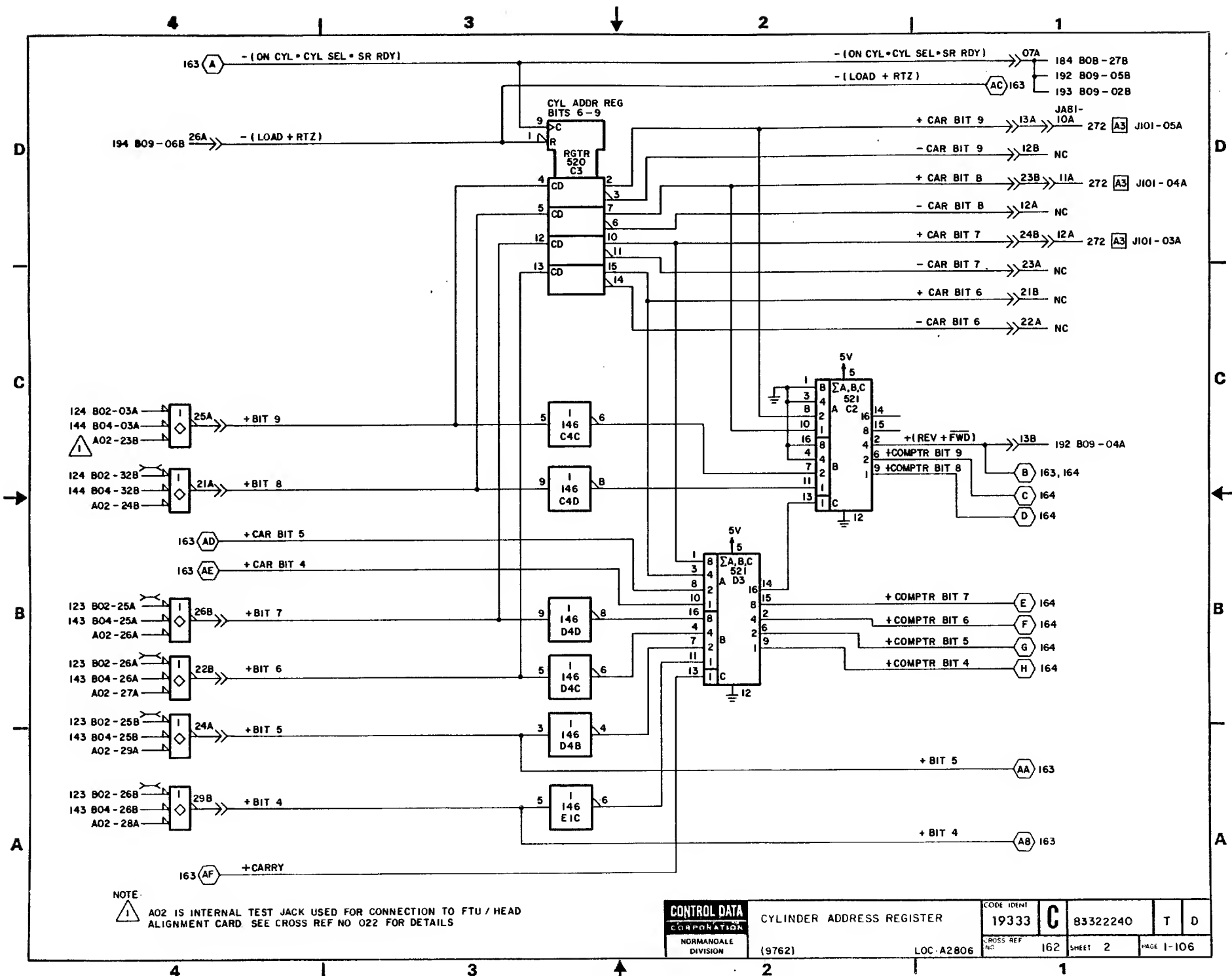
[illegible]

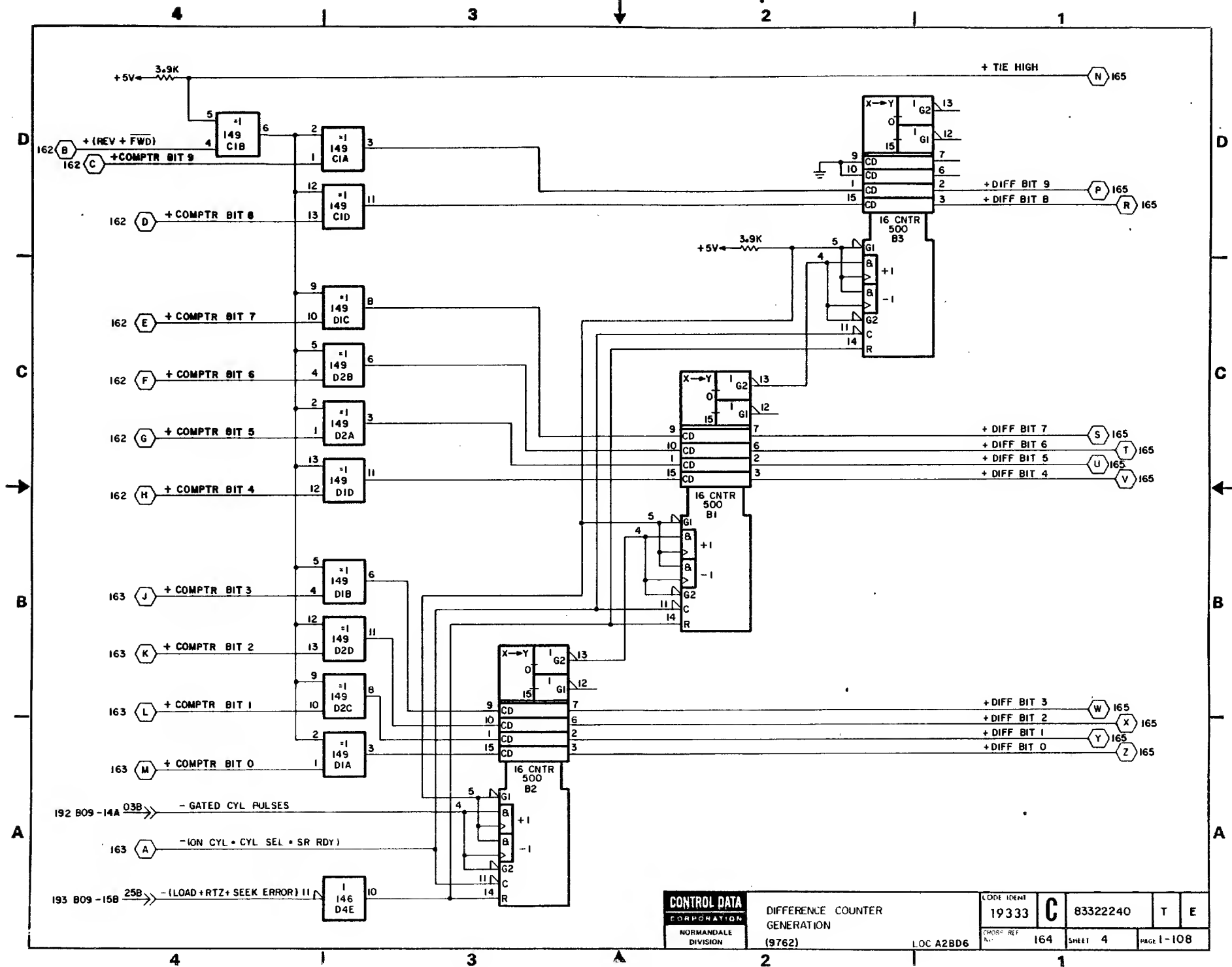
THIS DOCUMENT
TRANSFERRED TO
TCD DIVISION
DATE: 7/27/84

APPLICABLE TO BK5XX=9762

DRAWN	G. Rabin	BK/2	CONTROL DATA DIFFERENCE GENERATOR AND CONTROL DIAGRAMS TYPE FLWV	CODE IDENT	19333	C 83322240 Z G	161 1 of 5 1-105
CHECKED				TWIN CITIES DISK DIVISION	LOC A2B06		
ENGINEER							
APPROVED							

REF 83214816



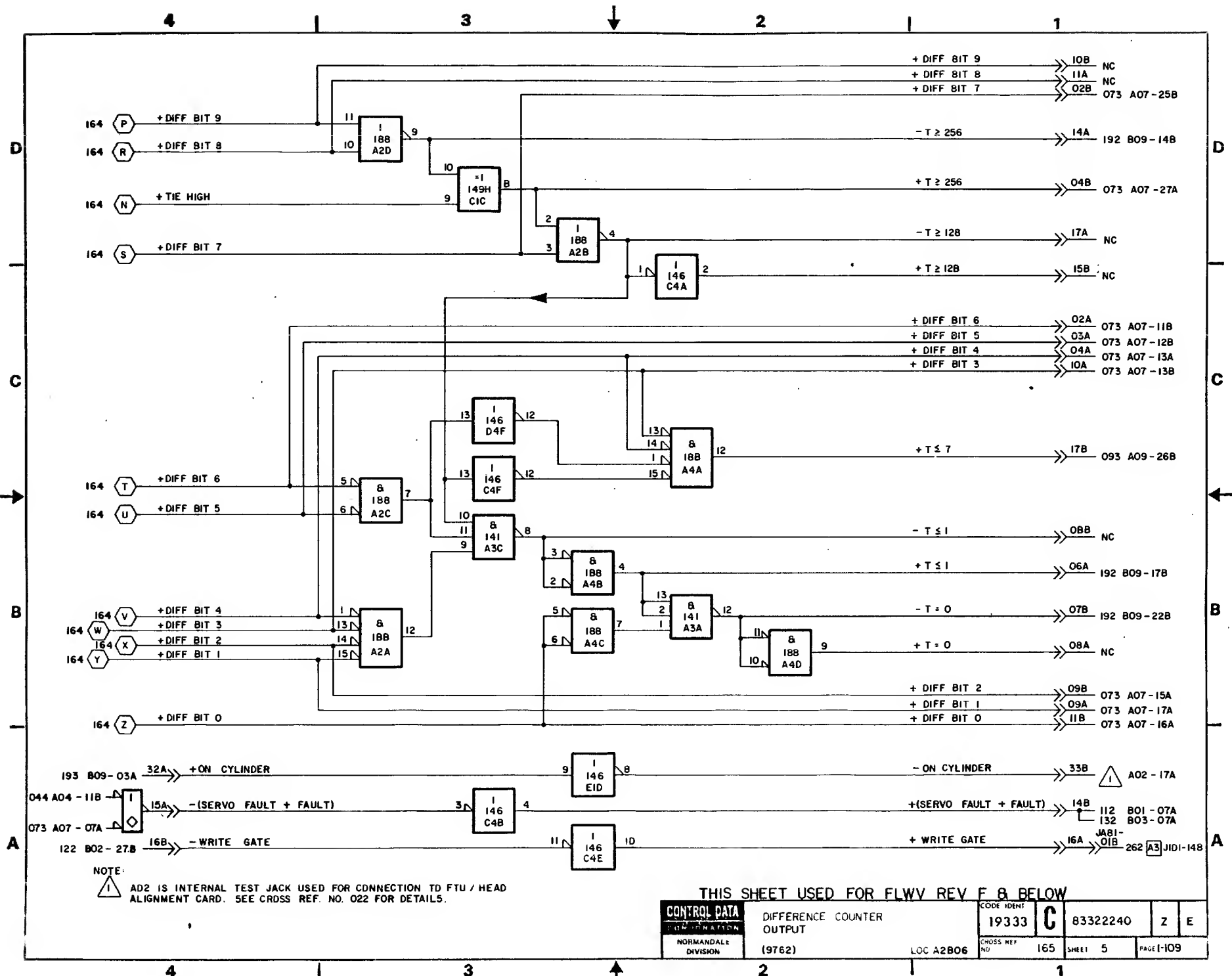


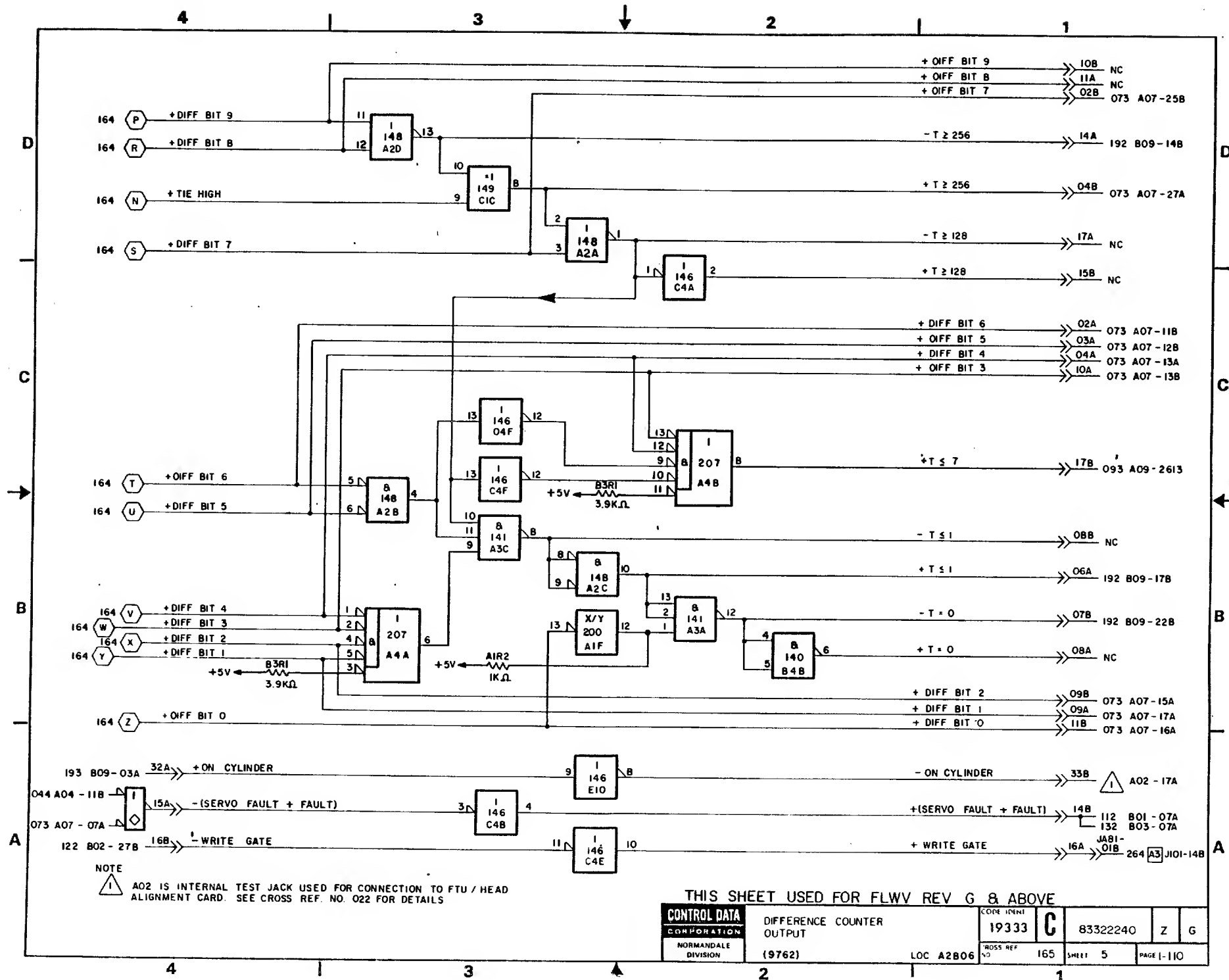
CONTROL DATA
CORPORATION
NORMANDALE
DIVISION

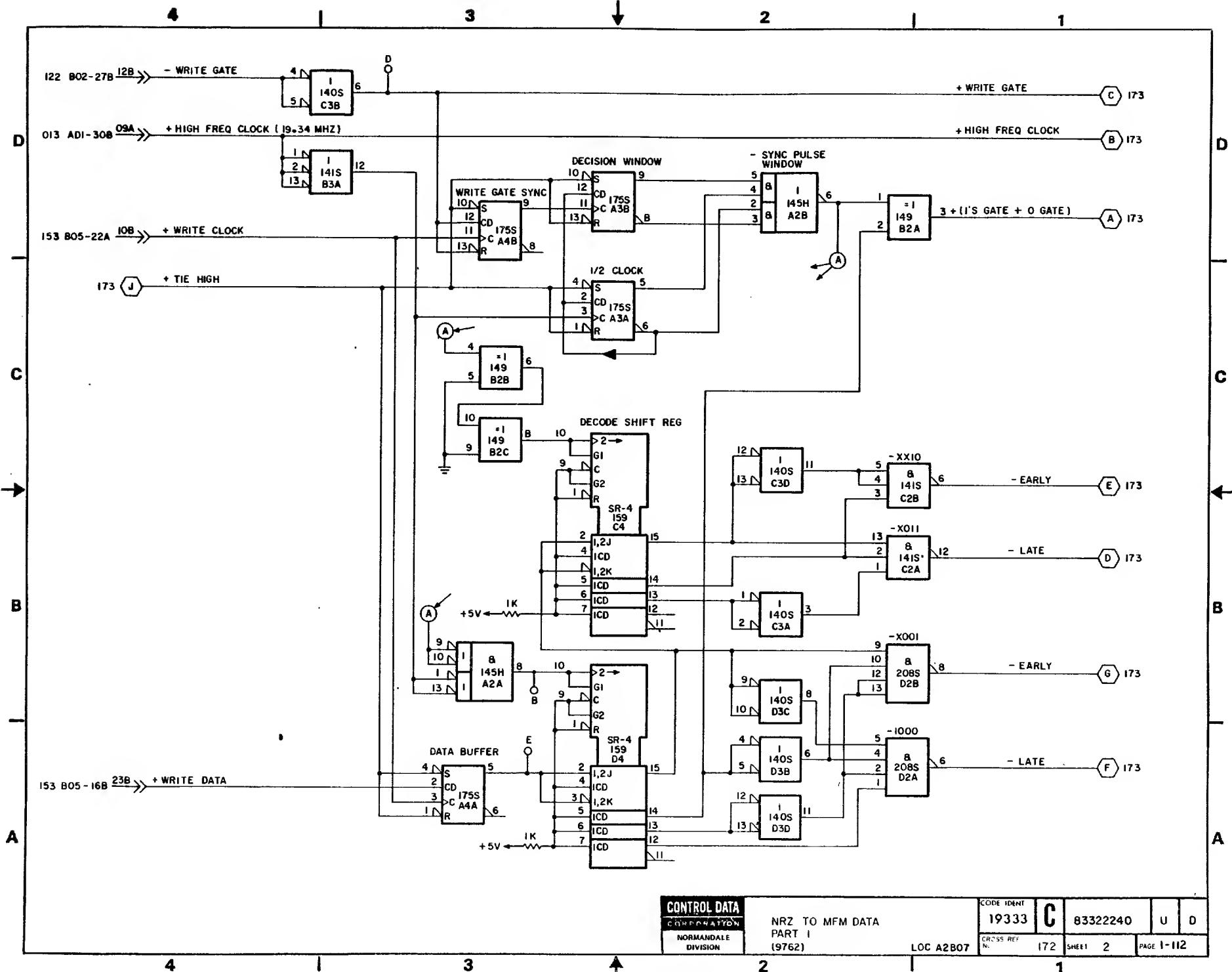
DIFFERENCE COUNTER
GENERATION
(9762)

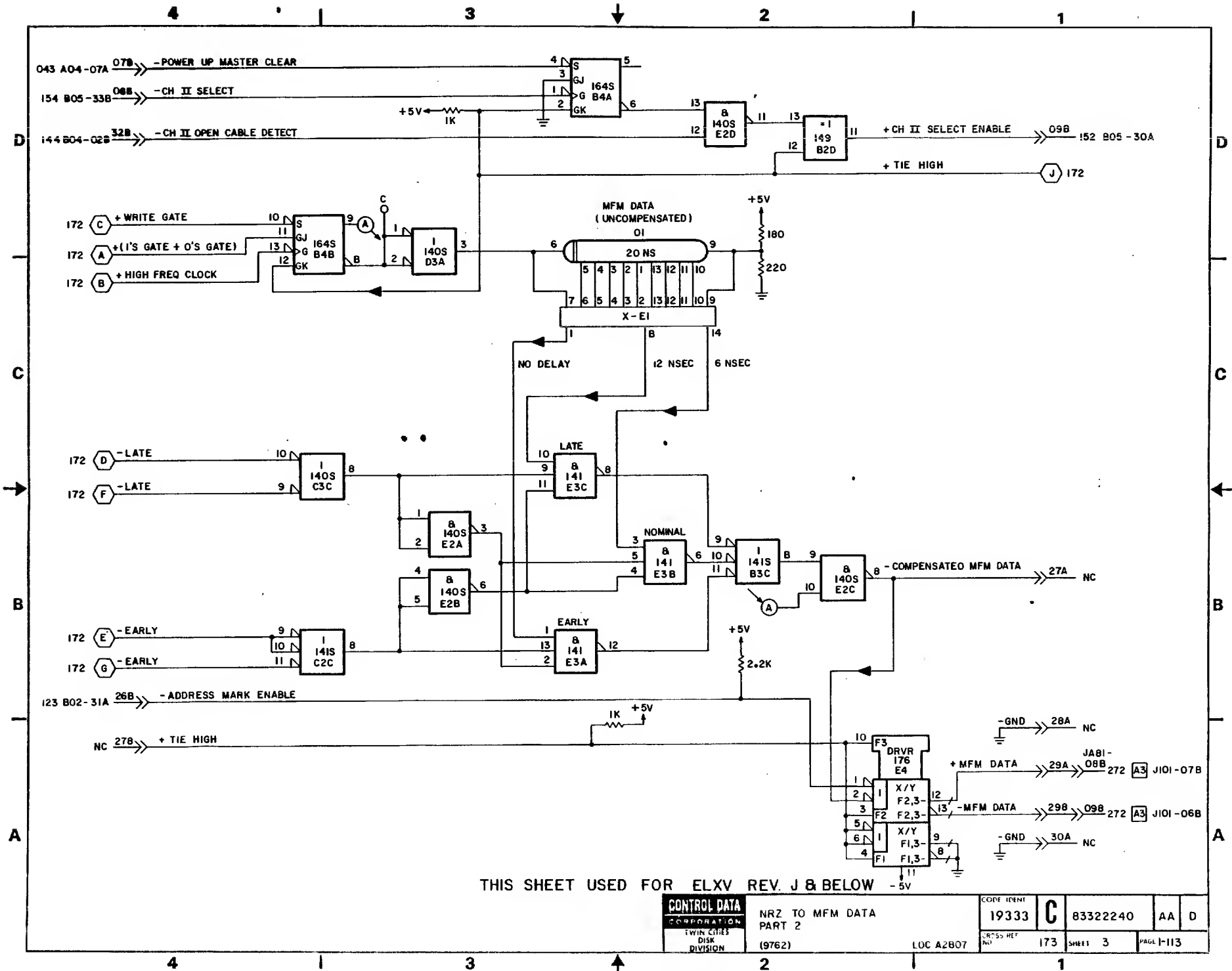
CODE IDENT	19333	C	83322240	T	E
CROSS REF	164	SHEET	4	PAGE 1-108	

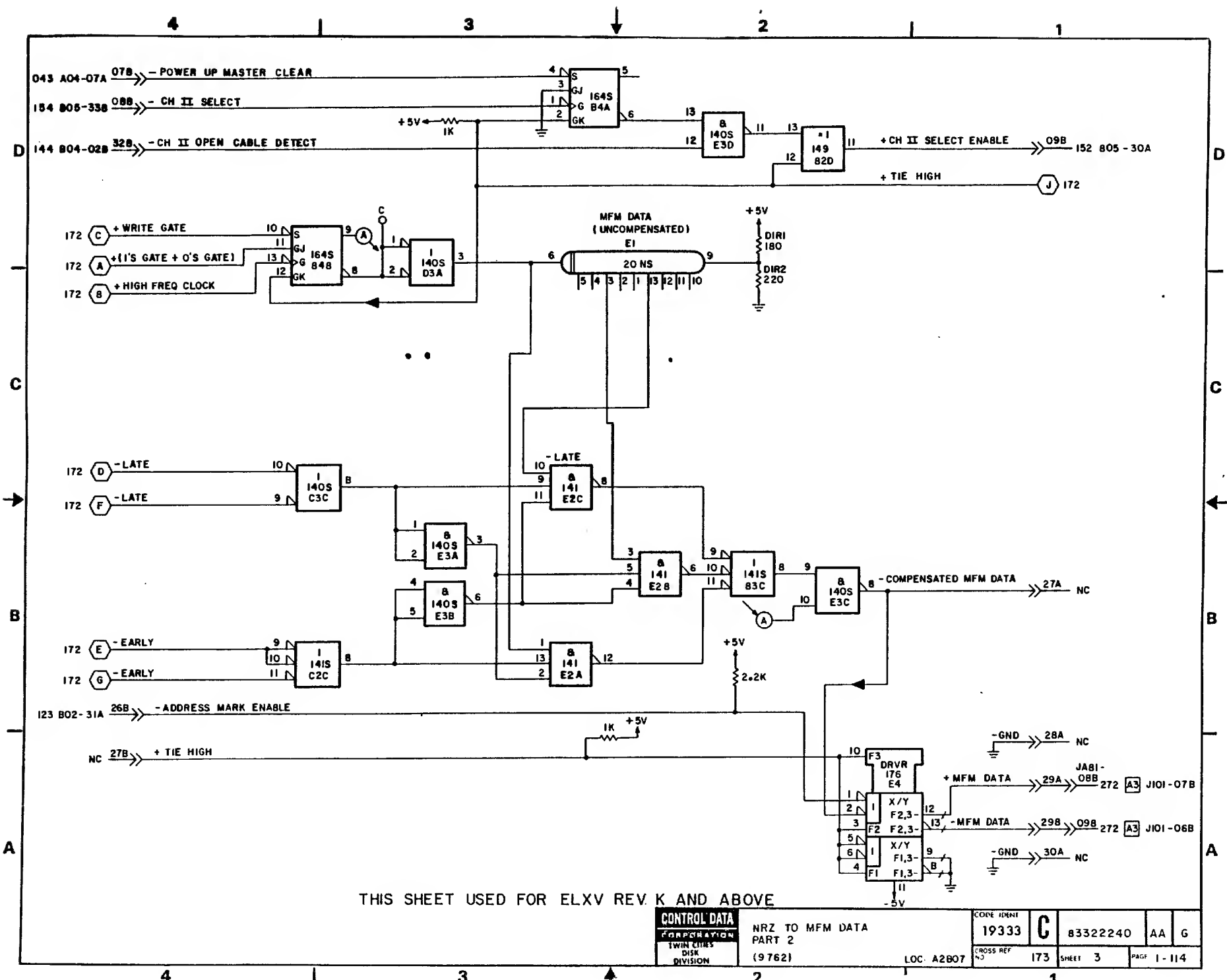
LOC A28D6











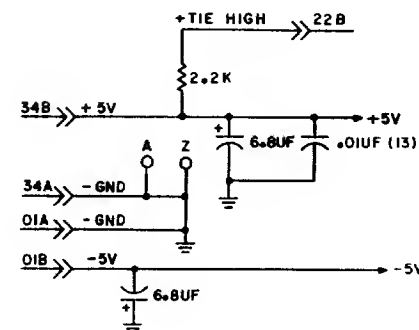
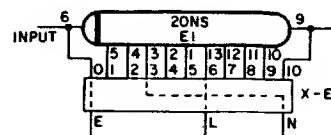
THIS SHEET USED FOR ELXV REV K AND ABOVE

CONTROL DATA CORPORATION TWIN CITIES DISK DIVISION	NRZ TO MFM DATA		CODE IDENT	C	83322240	AA	G
	PART 2		19333				
	(9762)		CROSS REF NO	173	SHEET 3	PAGE 1-114	
	LOC. A2807						

[illegible][illegible]

10. DELAY LINES ARE CONNECTED TO JUMPER BLOCK AS SHOWN IN DIAGRAM AT THE RIGHT. ACTUAL DELAYS ARE SELECTED DURING MANUFACTURING. THIS DIAGRAM SHOWS TYPICAL CONNECTIONS. DELAY TIME FOR EACH DELAY LINE PIN RELATIVE TO PIN 6 INPUT IS SHOWN IN CHART TO THE RIGHT.

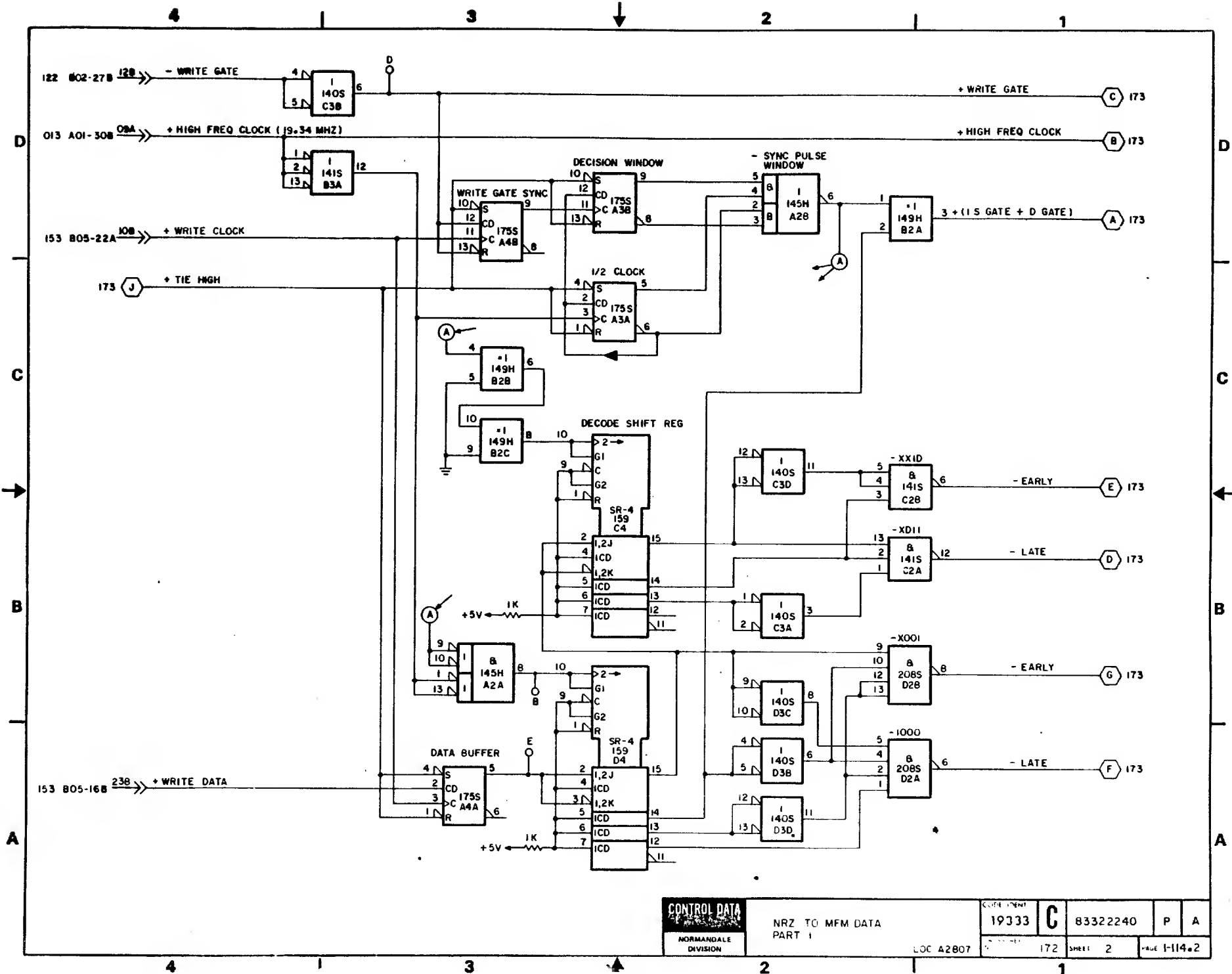
PIN	20NS DELAY
5	2 NS
4	4 NS
3	6 NS
2	8 NS
1	10 NS
13	12 NS
12	14 NS
11	16 NS
10	18 NS
9	20 NS

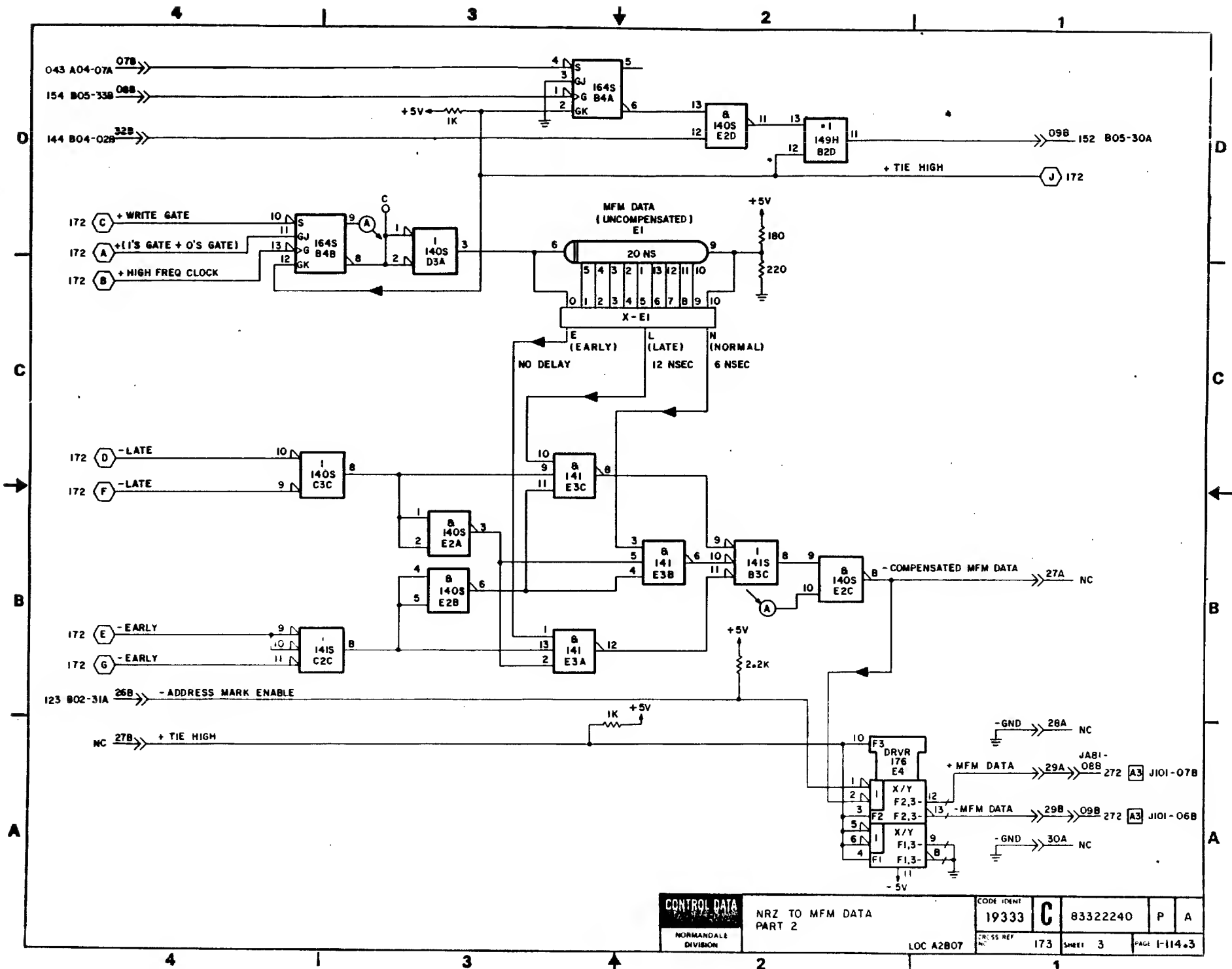


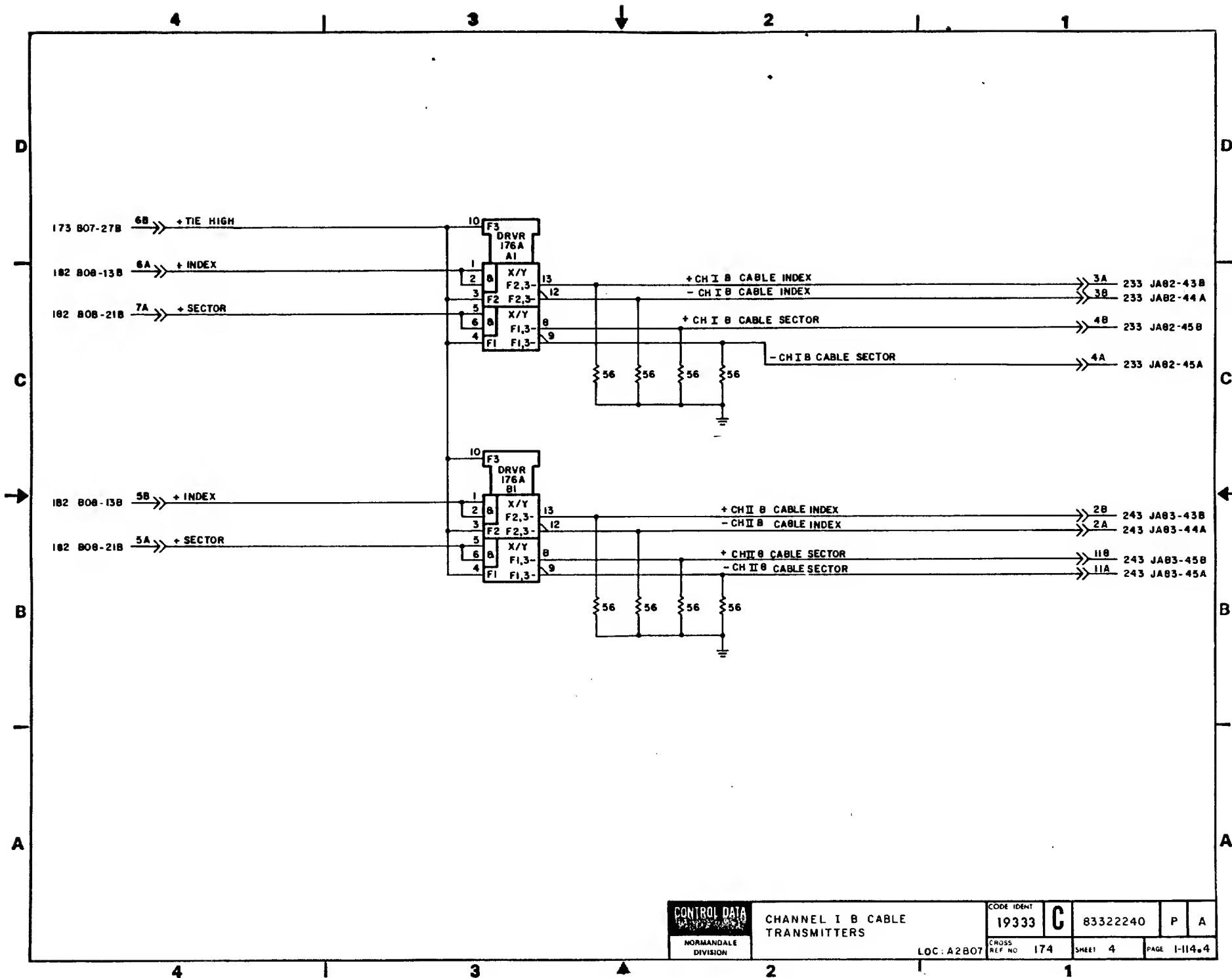
APPLICABLE TO UNITS W/INDEX & SECTOR ON A & B CABLES.

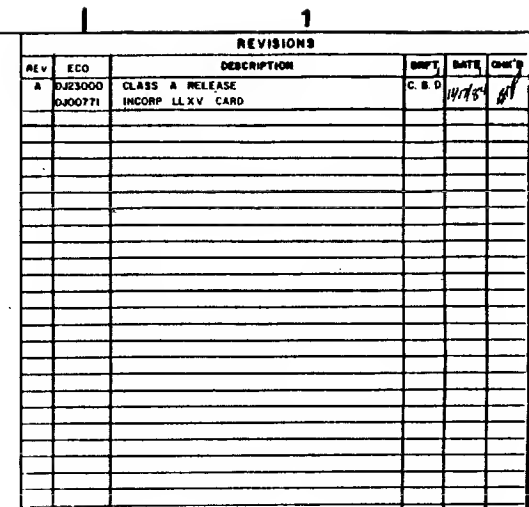
DRAWN	Norman H. Smith	<div style="background-color: black; color: white; padding: 5px; text-align: center;"> CONTROL DATA </div>	NRZ TO COMPENSATED MFM DIAGRAMS		CODE IDENT		<div style="background-color: black; color: white; padding: 5px; text-align: center; font-size: 2em;"> C </div>	83322240	V	A
CHECKED	Ray G. Galt				19333					
ENGINEER	Ray G. Galt									
APPROVED										
NORMANDALE DIVISION			TYPE FLXY	LOC A2B07	CROSS REF NO	171	SHEET	1 of 4	PAGE	11141

REF: 83214858









134 A13 - 03A	- +CH I INDEX	→ 14A	A3	782 J2 - 24
134 A13 - 03B	- -CH I INDEX	→ 14B	A3	782 J2 - 12
134 A13 - 04B	- +CH I SECTOR	→ 13A	A3	782 J2 - 26
134 A13 - 04A	- -CH I SECTOR	→ 13B	A3	782 J2 - 13

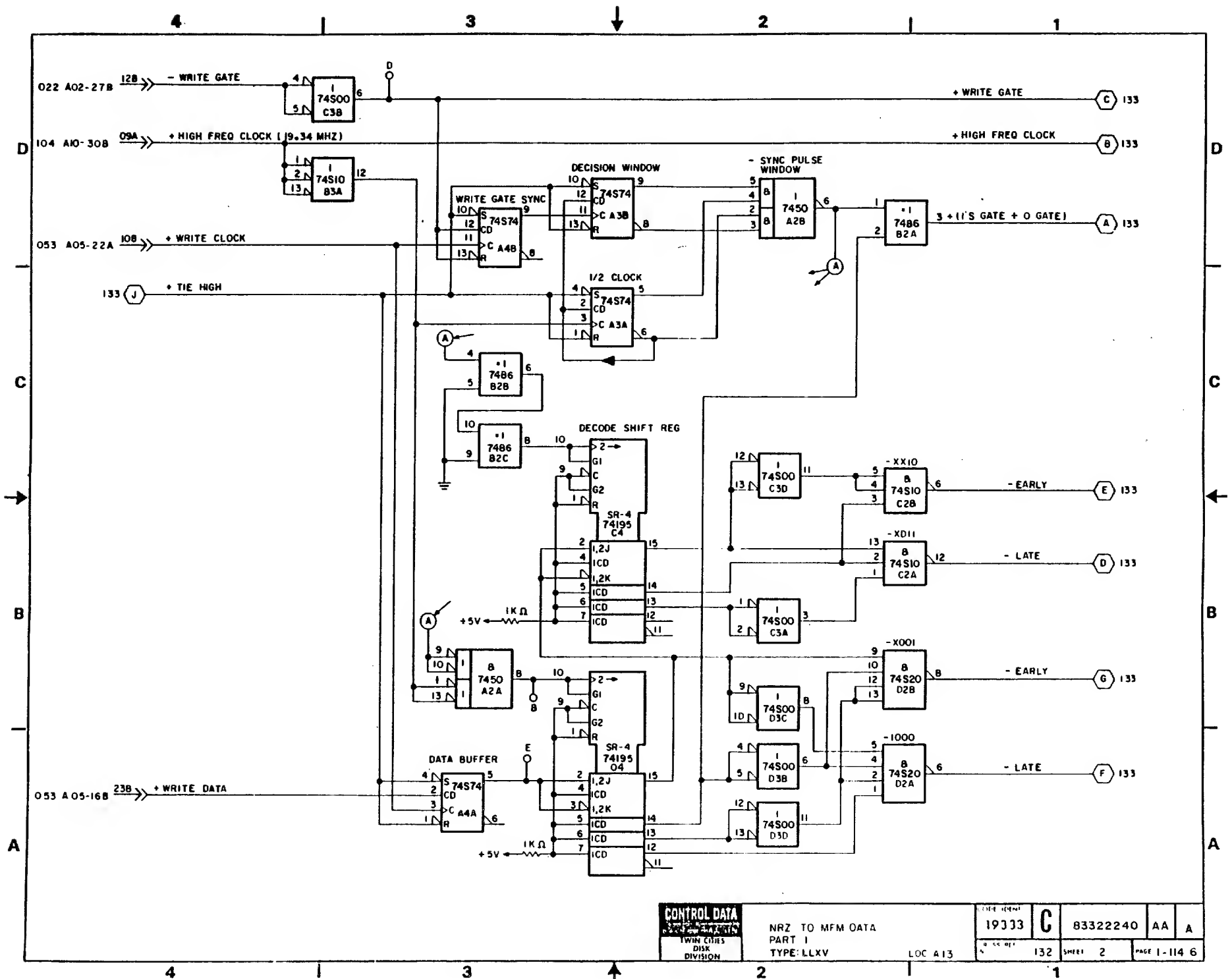
134 A13 - 028	+ CH II INDEX	12A	A3	783 J2 - 24
134 A13 - 02A	- CH II INDEX	12B	A3	783 J2 - 12
134 A13 - 118	+ CH II SECTOR	11A	A3	783 J2 - 26
134 A13 - 11A	- CH II SECTOR	11B	A3	783 J2 - 13

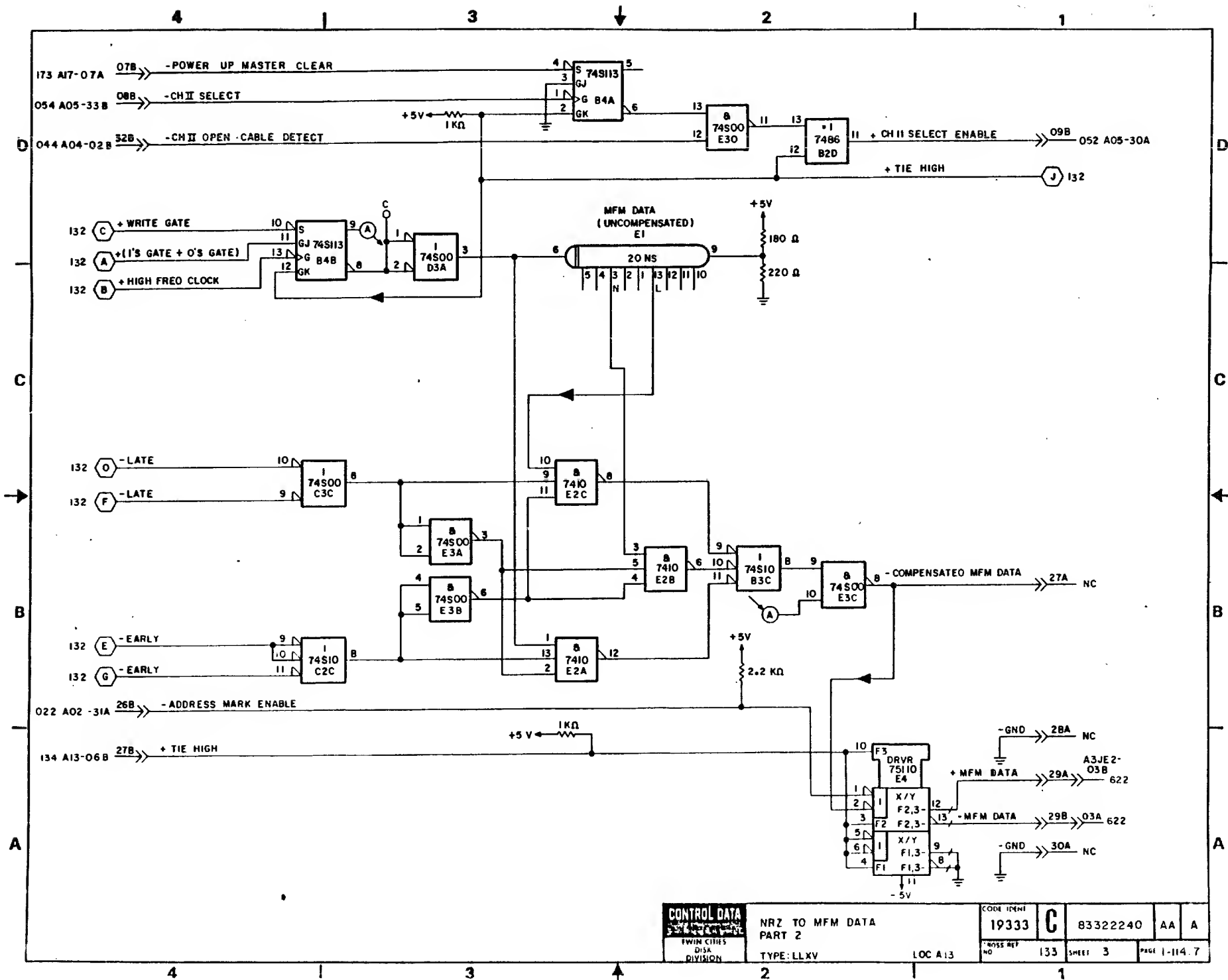
1. P090 IS AN I/O CABLE CONNECTOR THAT IS PLUGGED ON TO THE PINS OF J090 TO PLACE INOEX AND SECTOR SIGNALS ON THE B CABLE.

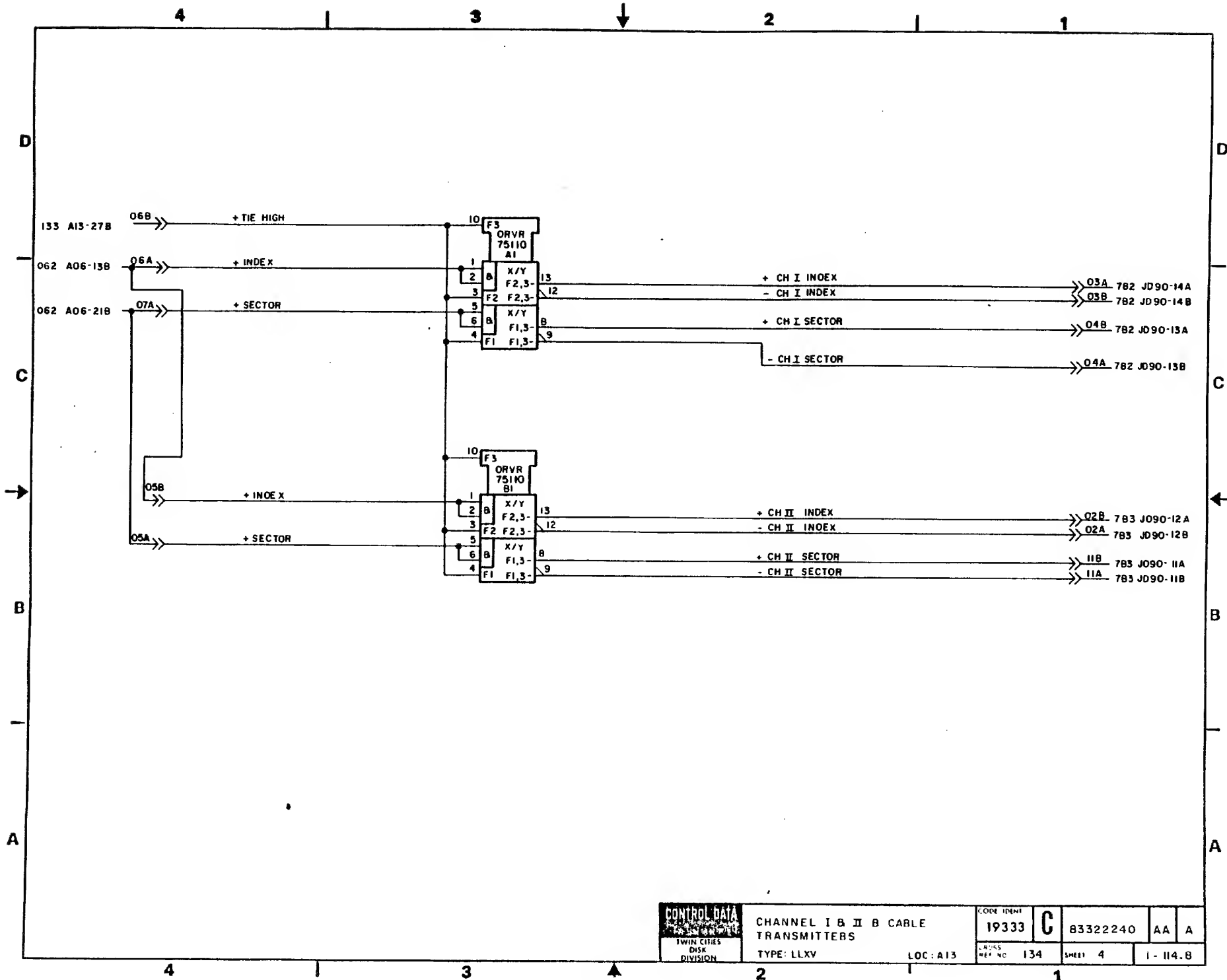
DRAWN	K. MONAMARA	10-4-84	CONTROL DATA TWIN CITIES DISK DIVISION	NRZ TO COMPENSATED MFM DIAGRAMS TYPE: LLXV LOC A13	CODE IDENT	19333	C	83322240	AA	A
CHECKED	C. B. [Signature]	10/4/84			CROSS REF	131	SHEET	1 of 4	PAGE	1-114.5
ENGINEER										
APPROVED										

CODE IDENT	C	83322240	AA	A
19333				
CROSS REF NO	131	SHEET 1 OF 4	PAGE 1-114.5	

REF 83214876



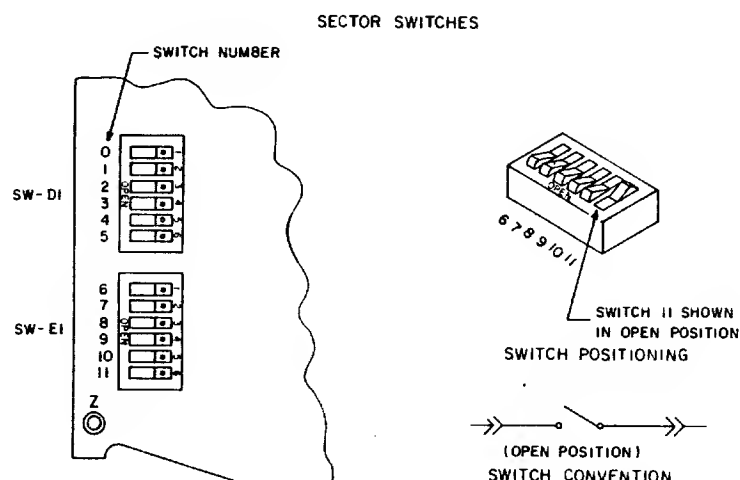




REVISIONS					
REV	ECO	DESCRIPTION	DRFT	DATE	CHK'D
A	PE23000	RELEASED	MA		
B	PE48296	CORRECT DIAGRAMS	SB	11-2-76	
C	PE48432	CORR DIA			
D	PE48523	CORR DIA	DM	7-25-77	
E	PE48675	ERR CORR	OM	1-25-78	
F	PE55069	REPLACE CHIP	TH	7-27-79	
G	PE55654	DOWN GRADE ROMB TO 40MB	TH	9-15-79	
H	PE55992	ADD SECTOR AND INDEX ON A AND B CABLE	CB	2-6-80	
J	PE60290	REDESIGN HFRV	MF	1-5-80	
K	PE60309	CHG I.C. FAMILIES	MJ	8-1-83	
L	QJ22000	XFER FROM PE	MJ	8-1-83	
M	QJ00377	CHG RESISTOR VALUE	MJ	8-1-83	
N	QJ00761	CHANGE FLT V COMP AY	MR	1-30-85	

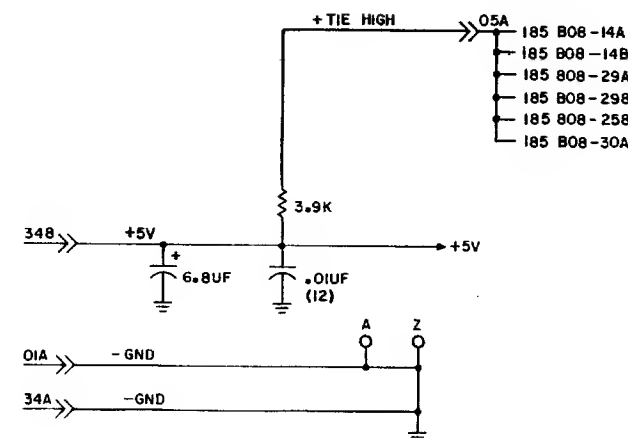
UNUSED LOGIC ELEMENT

TYPE	LOCATION	OUTPUT PIN (S)
146	B4	I2



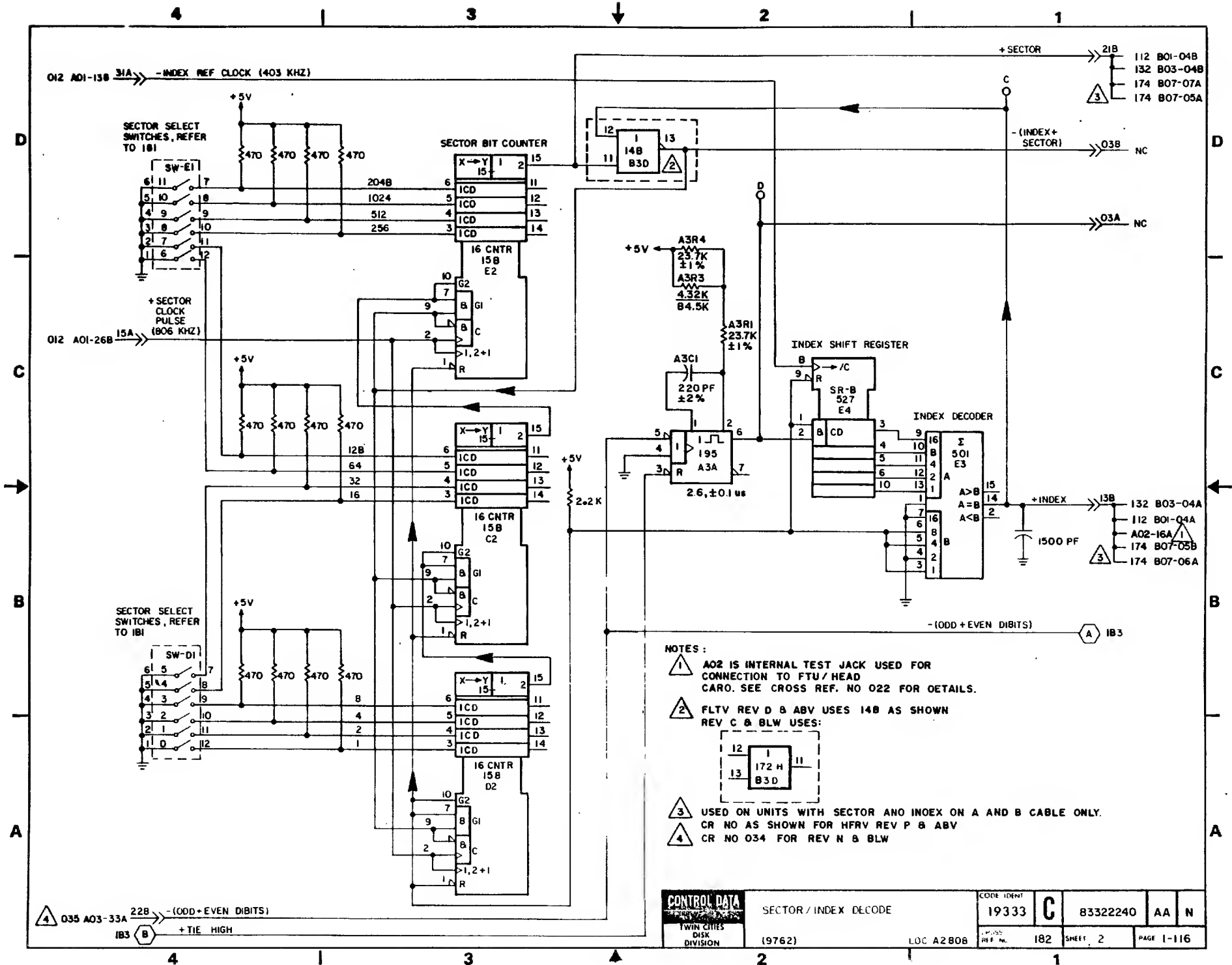
NOTE

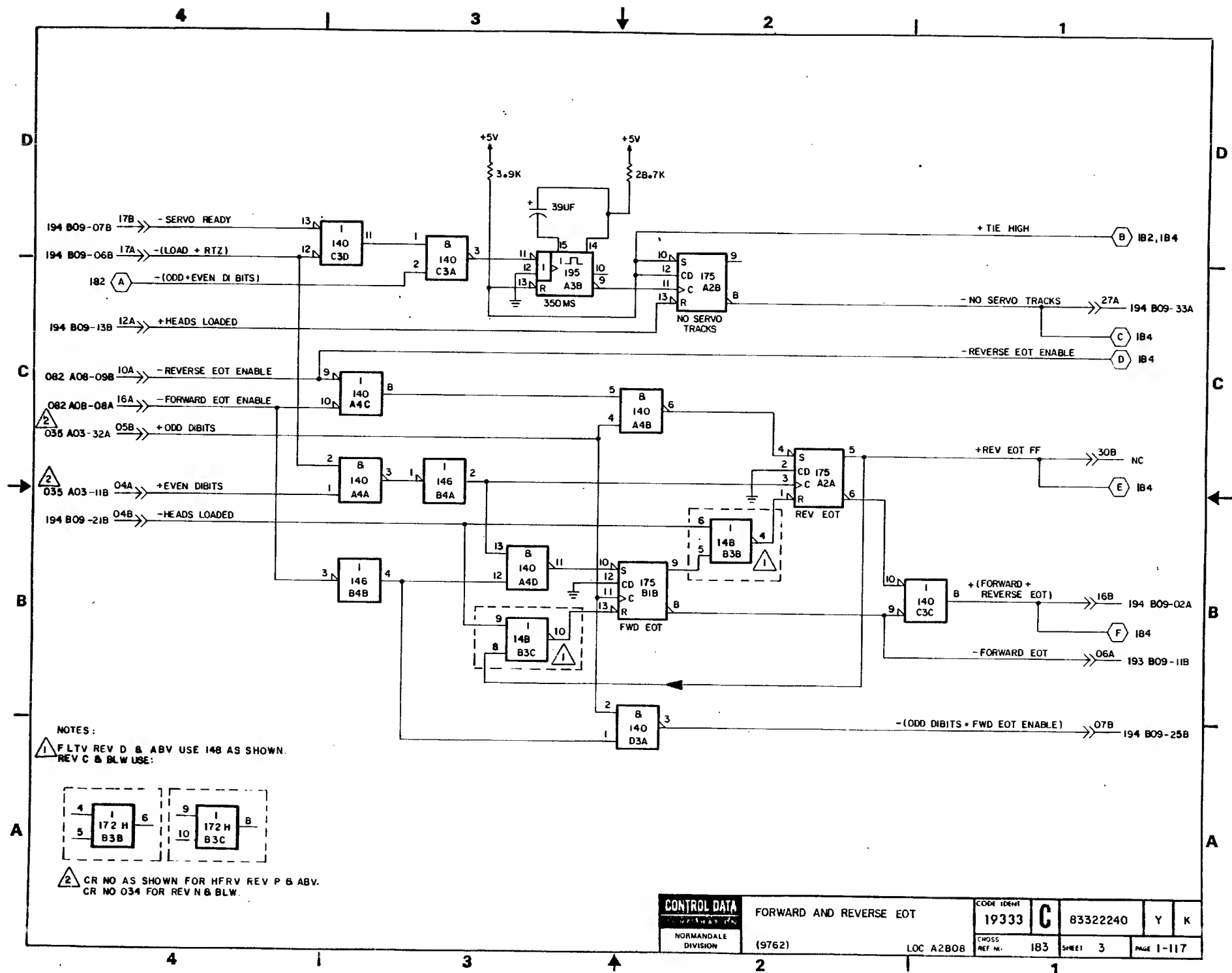
- REFER TO SECTION 1 OF MAINTENANCE MANUAL FOR INFORMATION ON HOW TO SELECT DIFFERENT SECTOR COUNTS.

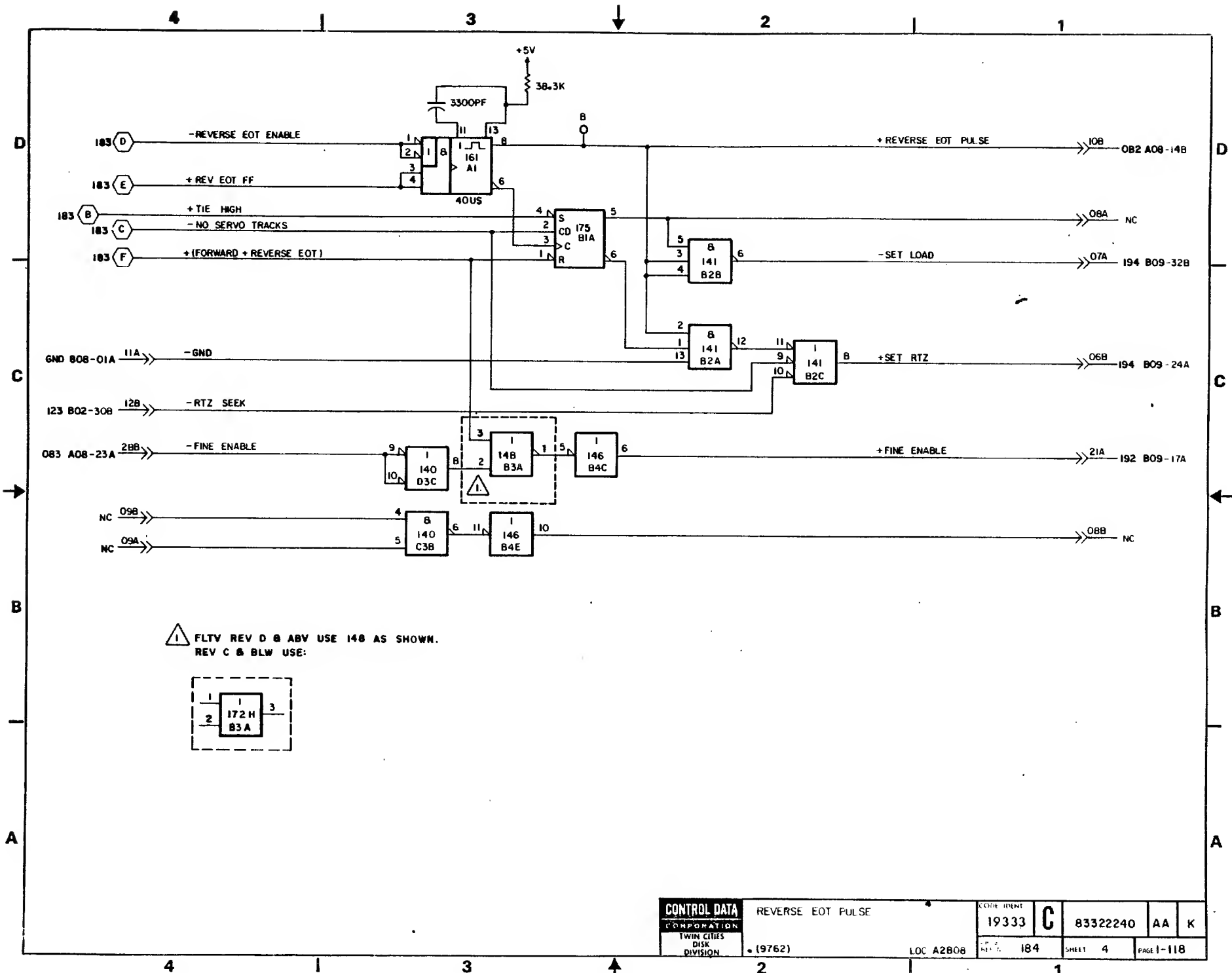


APPLICABLE TO BK5XX = 9762

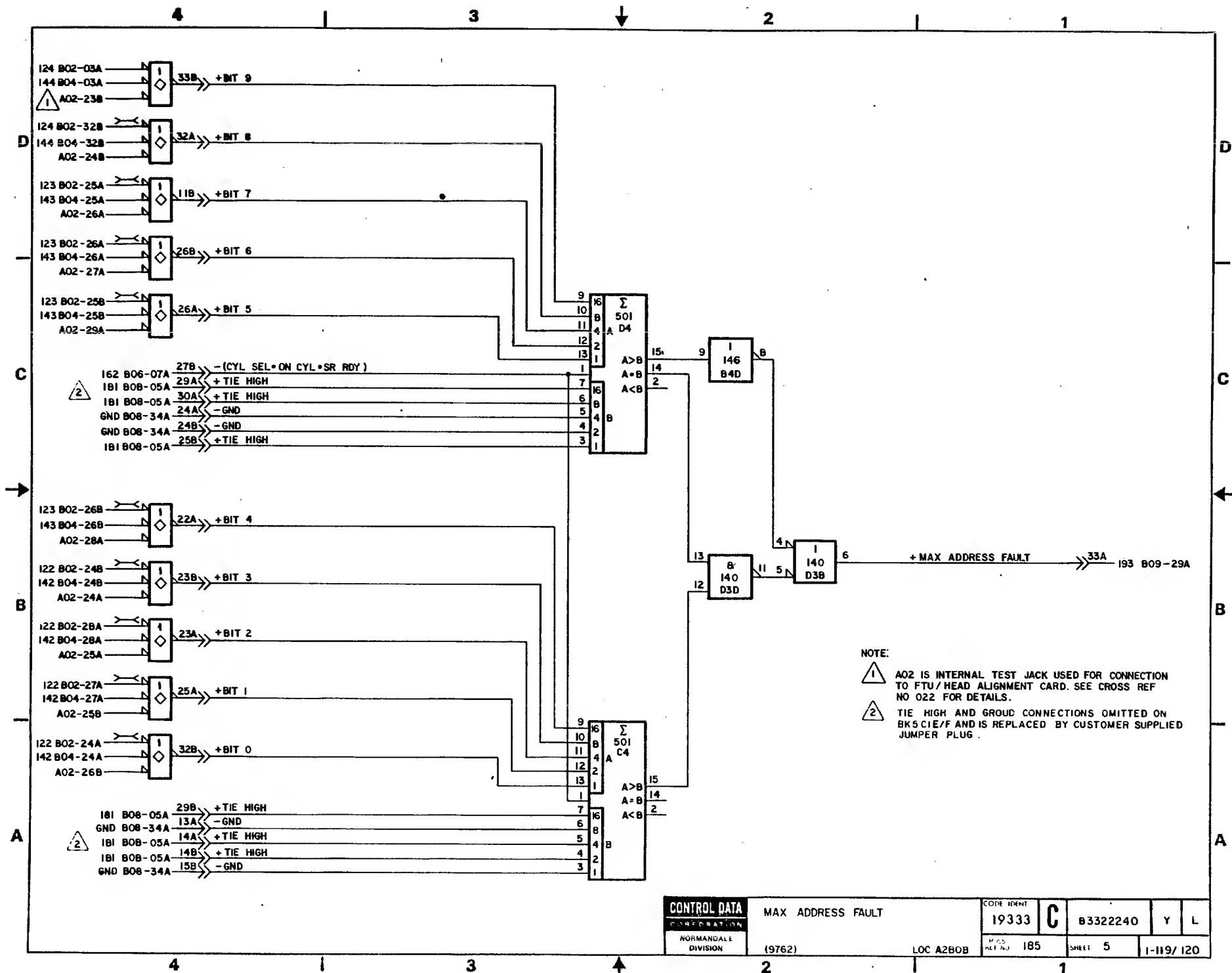
DRAWN	20-76	CONTROL DATA	ACCESS CONTROL AND INDEX / SECTOR DECODE DIAGRAMS	CODE IDENT	19333	C	83322240	AA	N
CHECKED				CROSS REF	181				
ENGINEER		TWIN CITIES DISK DIVISION	TYPE: FLT V	LOC A2B06	SHEET	1 of 5	PAGE	1-115	
APPROVED									



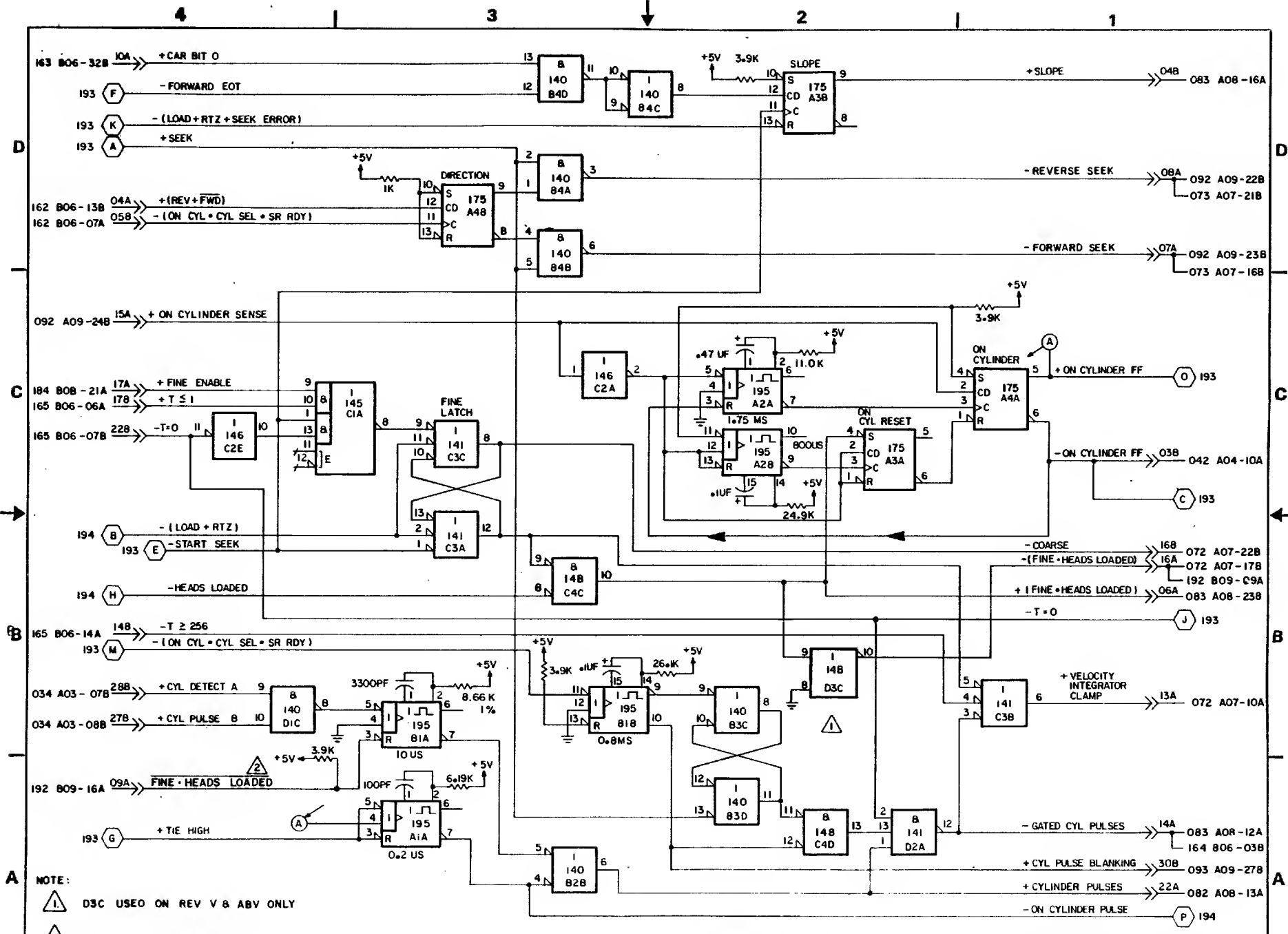




CONTROL DATA CORPORATION TWIN CITIES DISK DIVISION	REVERSE EOT PULSE		CODE IDENT	C	83322240	AA	K
			19333				
(9762)		LOC A2B08	REV. 184	SHEET 4	PAGE 1-118		



CONTROL DATA CORPORATION NORMANDALE DIVISION	MAX ADDRESS FAULT (9762)	CODE IDENT	19333	C	B3322240	Y	L
		LOC A2B0B	185	SHEET	5	1-119/120	



NOTE:

1. D3C USED ON REV V & ABV ONLY

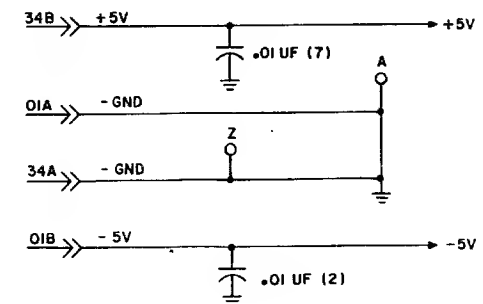
2. -FINE USED ON OLDER UNITS

CONTROL DATA CORPORATION	DIRECTION CONTROL, FINE LATCH ON CYL AND CYL PULSES, (9762)	LOC A2B09	CODE IDENT	C	83322240	AA	L
			19333				
TWIN CITIES DISK DIVISION			192	SHEET 2	PAGE 1-122		

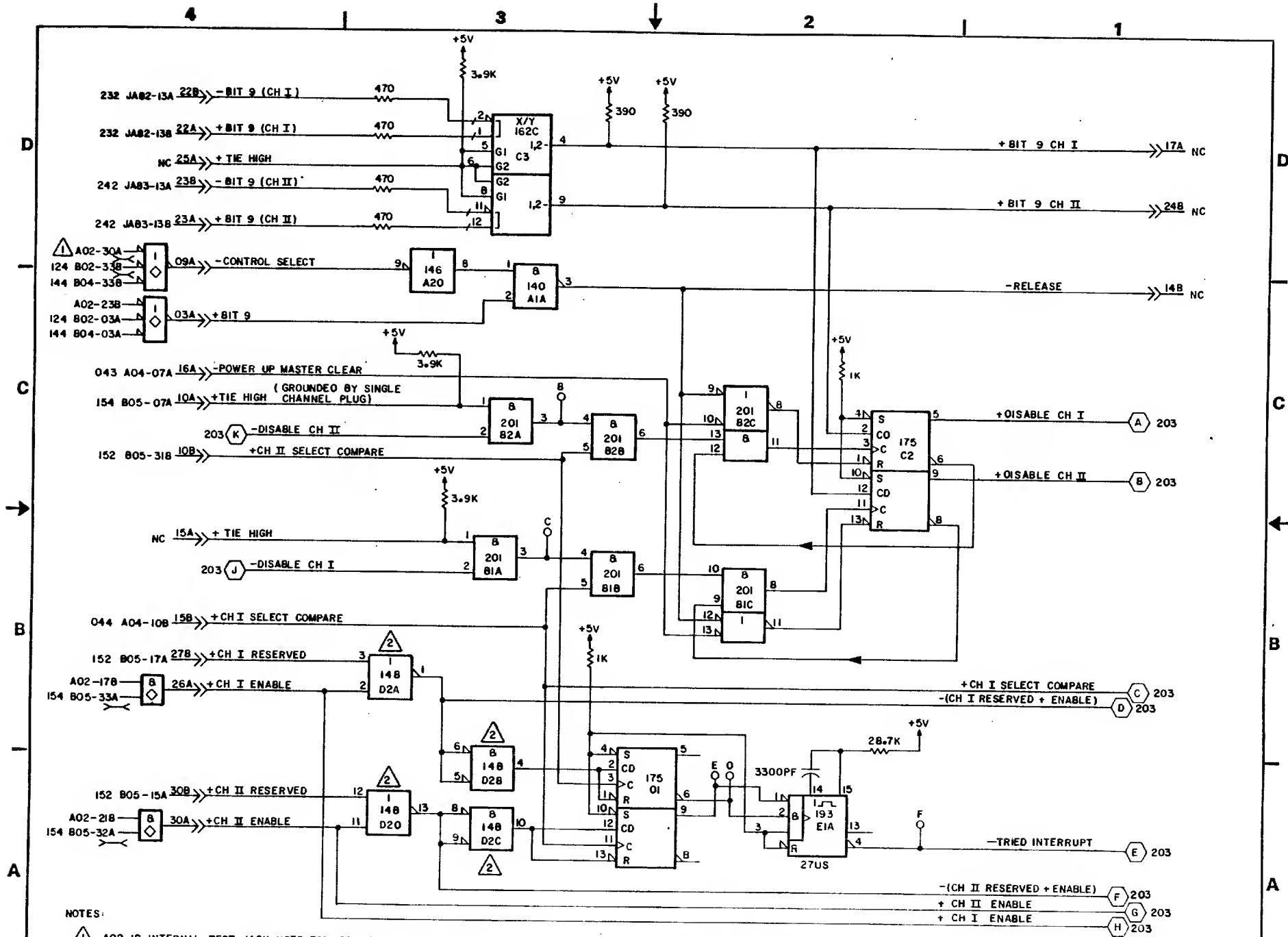
REVISION STATUS OF SHEETS																			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A	A	A																	
B	B	B																	
C	C	B																	
D	C	D																	
E	E	E																	
F	F	F																	

REVISIONS					
REV	ECO	DESCRIPTION	DRFT	DATE	CHK'D
A	PE23000	RELEASED	GR		
B	PE48402	CORRECT DIAGRAMS	WEB	12-17-76	
C	PE48560	W/W CHG	GR	5-10-77	
D	PE48675	ERR CORR	DM	1-25-78	
E		CORRECT SIGNAL NAME	A A O	6-15-78	
F	PE60277	CHG IC FAMILIES	M F	7-13-81	

UNUSED LOGIC ELEMENT		
ELEMENT TYPE	LOCATION	OUTPUT PIN(S)
193	E1B	5,12



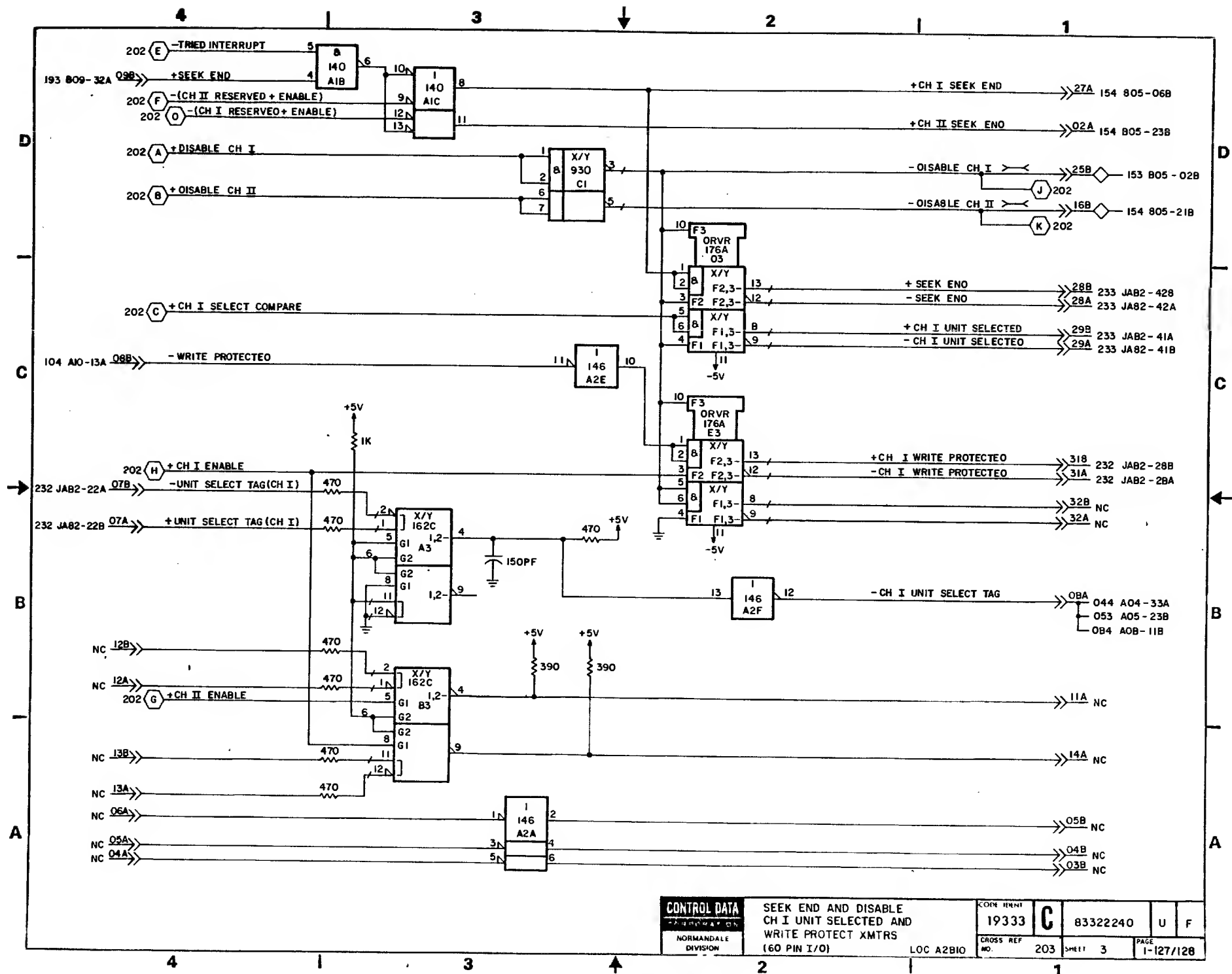
DRAWN	E. KLEIN	8/2/76	CONTROL DATA CORPORATION NORMANDALE DIVISION	DUAL CHANNEL INTERRUPT AND CHI XMTRS DIAGRAMS TYPE 6SMV		CODE IDENT	19333	C	83322240	U	F
CHECKED				LOC A2B1C		CROSS REF	201	SHEET	1 of 3	PAGE	1-125
ENGINEER											
APPROVED											



NOTES:

- ① A02 IS INTERNAL TEST JACK USED FOR CONNECTION TO FTU/HEAD ALIGNMENT CARD. SEE CROSS REF. NO.022 FOR DETAILS.
- ② ELEMENT TYPE 172H USED ON 6SMV REV C & 8LW.

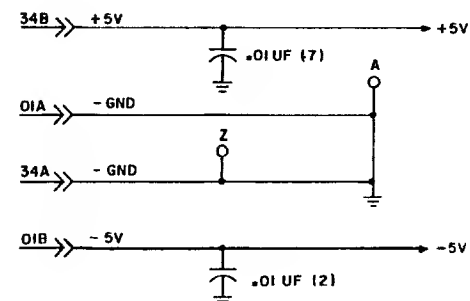
CONTROL DATA		CODE IDENT		CROSS REF		NO.		PAGE	
NORMANDALE DIVISION		19333		202		2		1-126	
DUAL CHANNEL INTERRUPTS		C		83322240		U		F	
(60 PIN I/O)		LOC A2810		SHEET		2			




REVISION STATUS OF SHEETS																			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A	A	A	A																

[illegible]

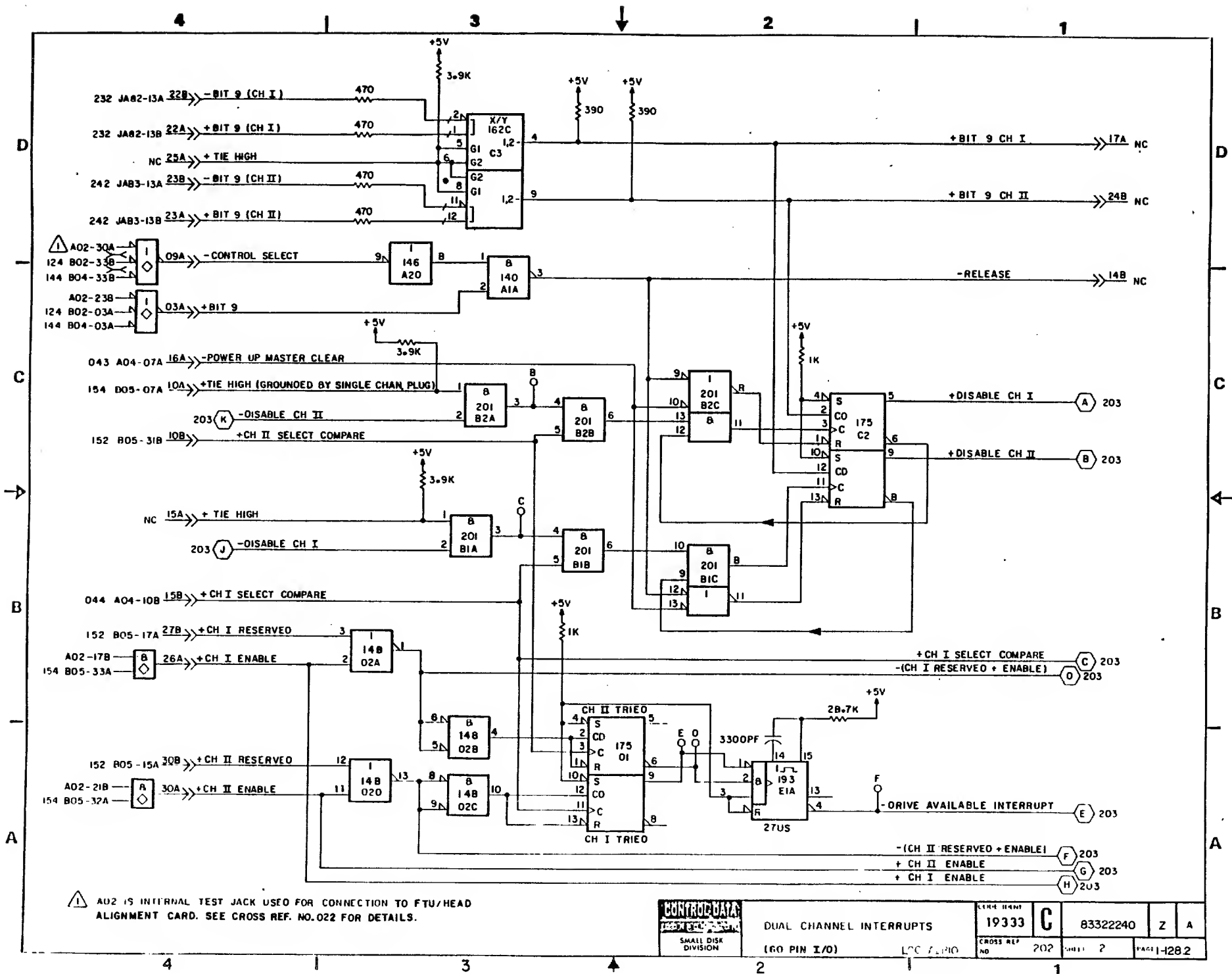
ELEMENT TYPE	LOCATION	OUTPUT PIN(S)
193	E1B	5,12

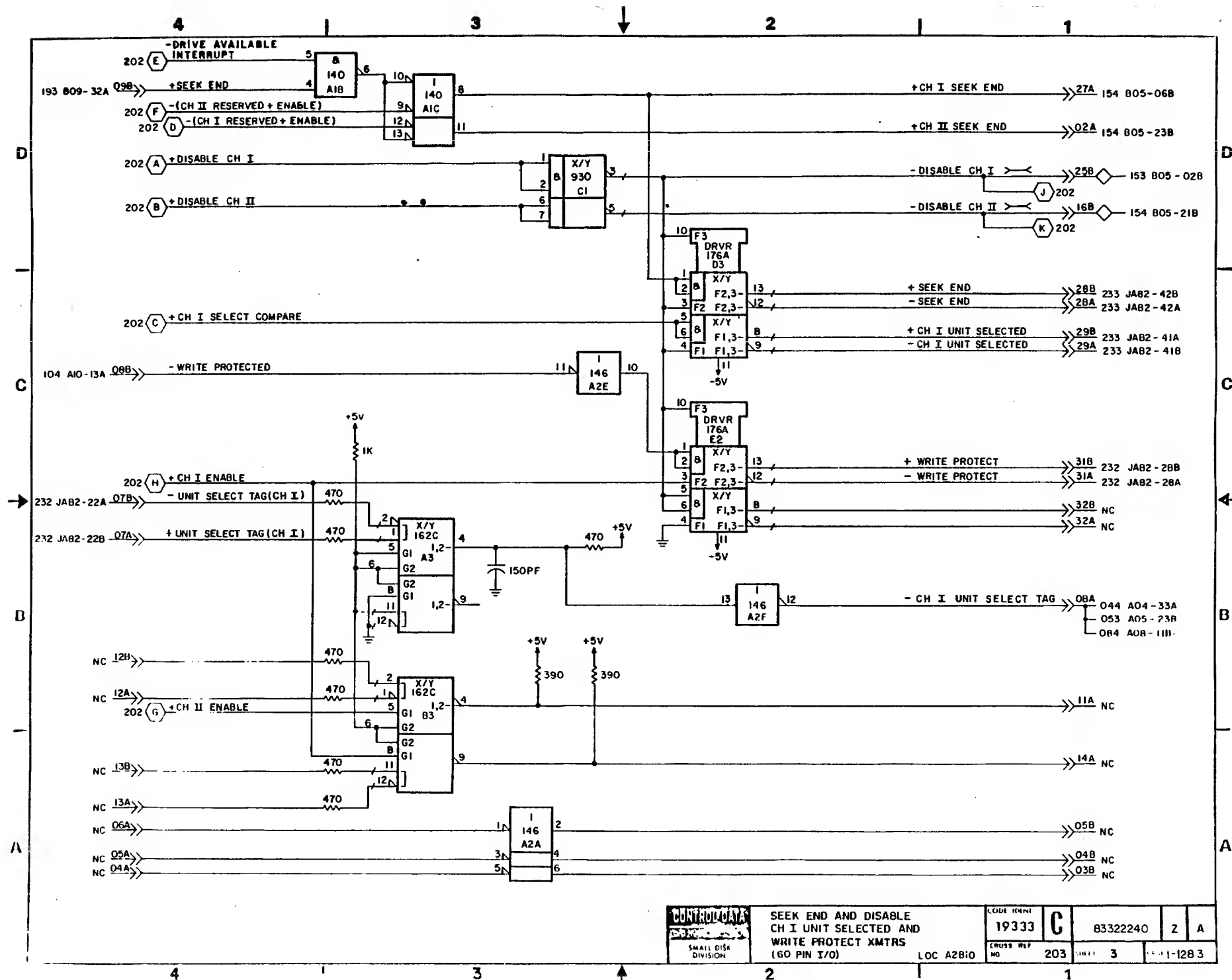


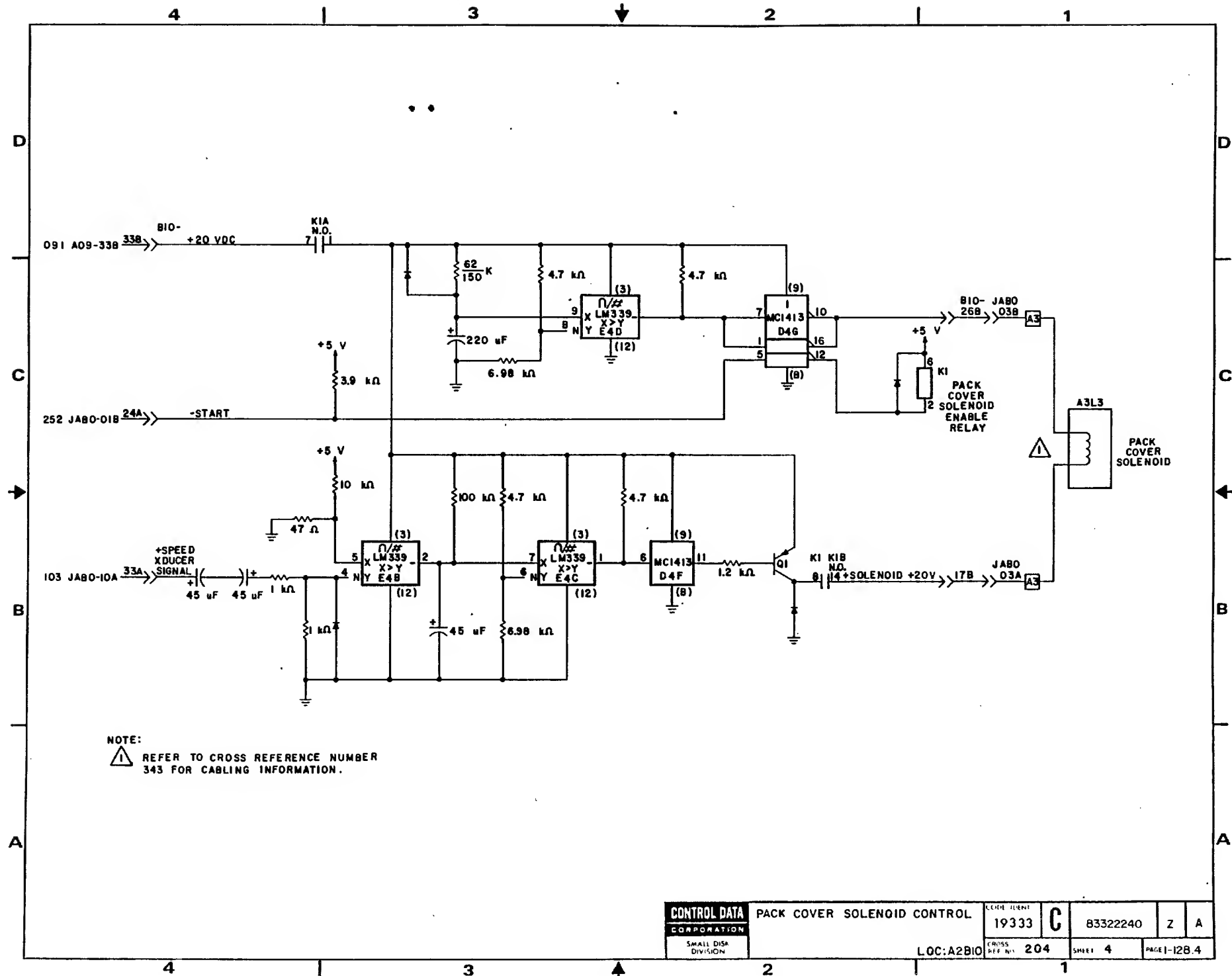
THIS SET USED FOR BK5C6D (60 PIN I/O)

ISSUANCE	K.BARTSCH 11-16-82	<div style="border: 2px solid black; padding: 5px; text-align: center;"> CONTROL DATA  SMALL DISK DIVISION </div>	DUAL CHANNEL INTERRUPT AND CHI XMTRS DIAGRAMS "YDE"	CODE 19333	C	83322240	Z	A
FILED			TYPE: ESMV	LOC: A2B10	1-128.1			
FILED								
FILED								

REF 83214868



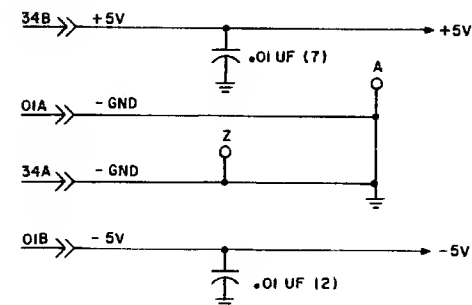




REVISION STATUS OF SHEETS																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A	A	A	A																	
B	B	B	B																	
C	C	C	B																	
D	D	D	D																	
E	E	E	D																	
F	F	F	F																	

REVISIONS					
REV.	ECO.	DESCRIPTION	DRFT	DATE	CHK'D
A	PE23000	RELEASED	GR		
B	PE48402	CORR DIAG			
C	PE48560	W/W CHG	GR	5-10-77	
D	PE48523	CORR DIAG	DM	7-22-77	
E	PE48568	DIAG CORR	DM	7-22-77	
F		CORRECT SIGNAL NAME	A.A.O.	6-15-78	

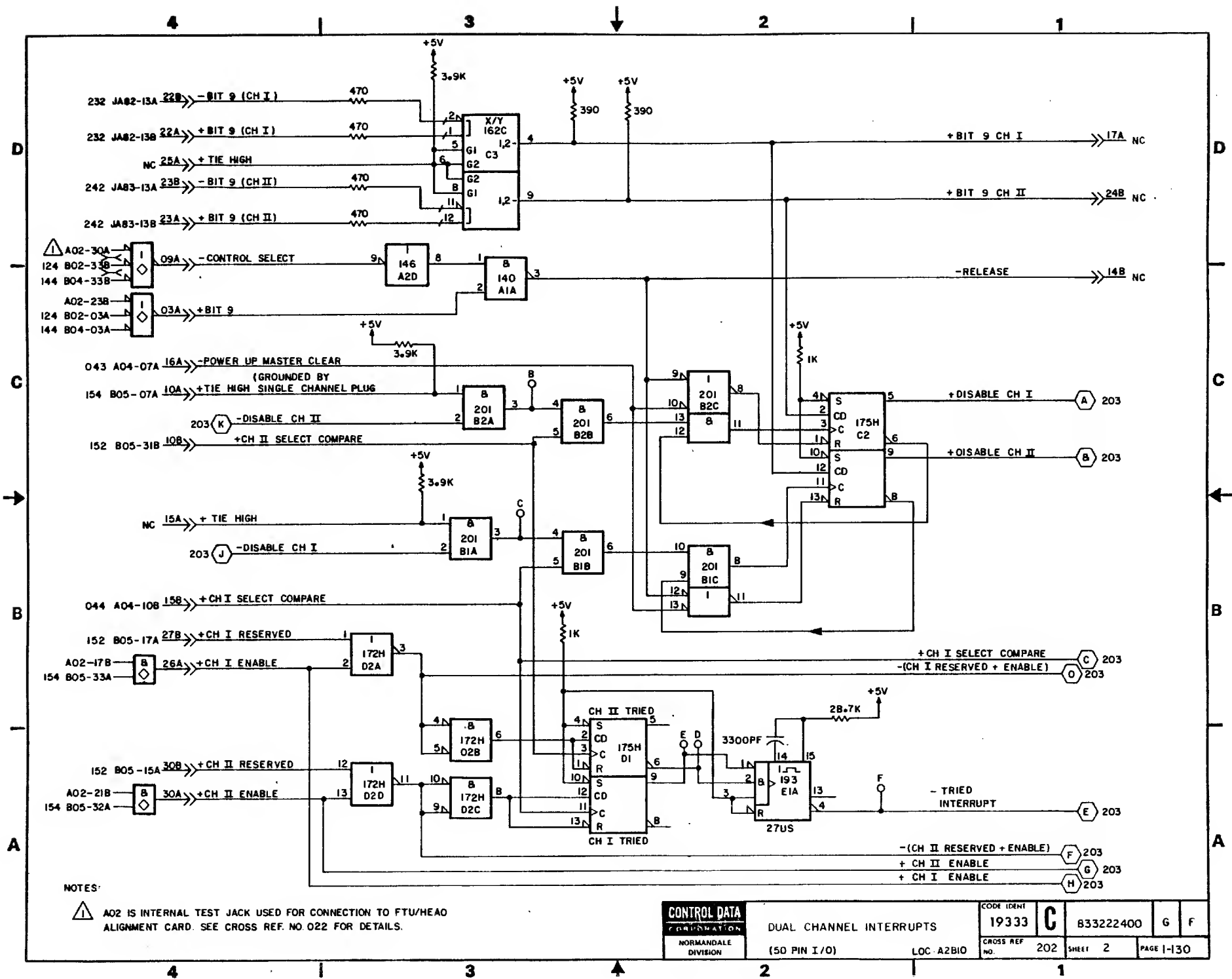
UNUSED LOGIC ELEMENT		
ELEMENT TYPE	LOCATION	OUTPUT PIN(S)
193	E1B	5,12



APPLICABLE TO 50 PIN I/O

DESIGN	E. KLEIN	1/2/78	CONTROL DATA	DUAL CHANNEL INTERRUPT AND CHI XMTRS DIAGRAMS	CODE IDENT	19333	83322240	K	F
CHECKED			INFORMATION		CROSS REF NO	201	SHEET 1 of 3	PAGE 1-129	
ENGINEER			NORMANDEALE DIVISION	TYPE 6SMV	LOC A2B10				
APPROVED									

REF 83214841



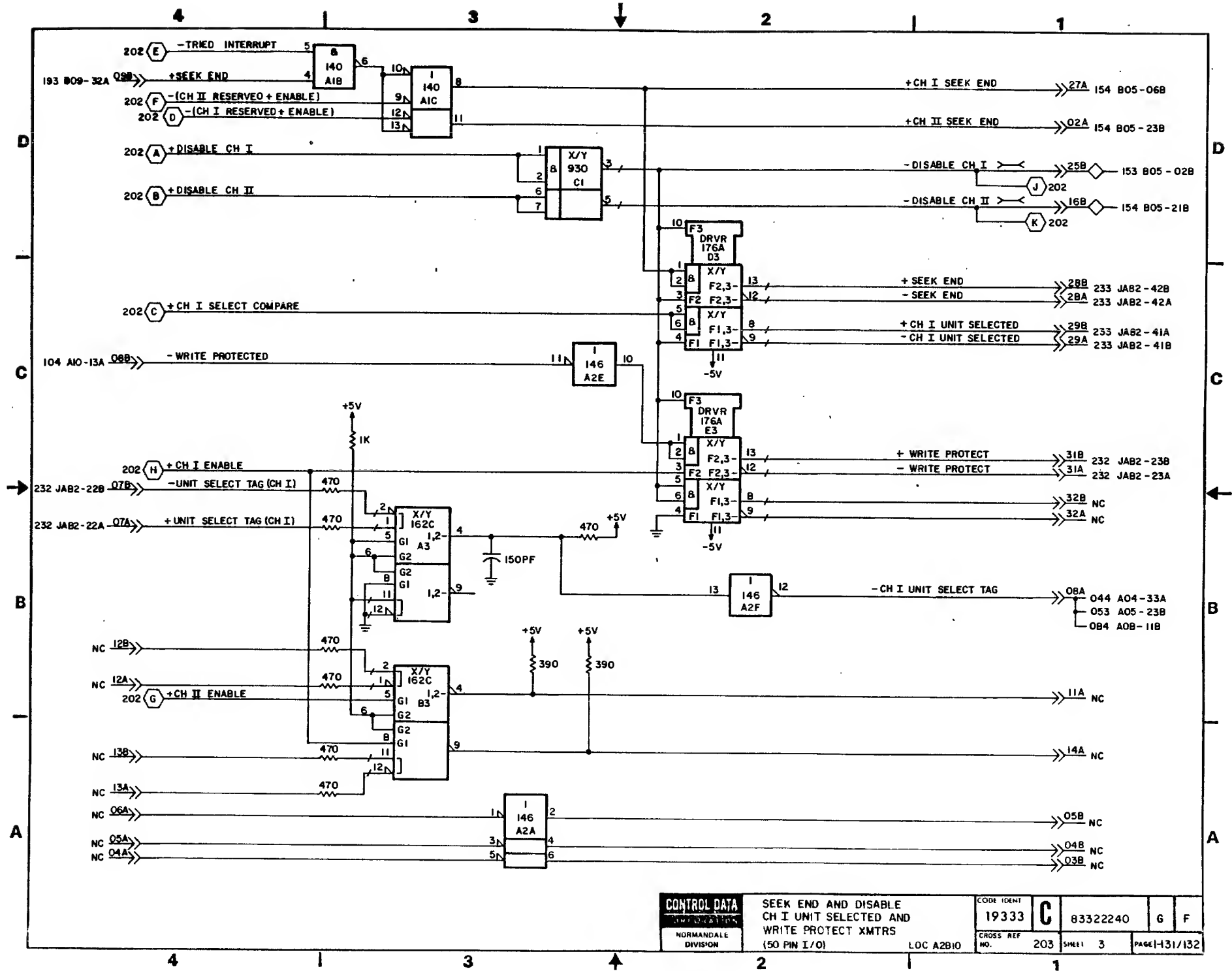
NOTES:

- ⚠ A02 IS INTERNAL TEST JACK USED FOR CONNECTION TO FTU/HEAD ALIGNMENT CARD. SEE CROSS REF. NO. 022 FOR DETAILS.

CONTROL DATA
NORMANDALE
DIVISION

DUAL CHANNEL INTERRUPTS
(50 PIN I/O)

CODE IDENT	19333	C	833222400	G	F
CROSS REF NO.	202	SHEET	2	PAGE	1-130



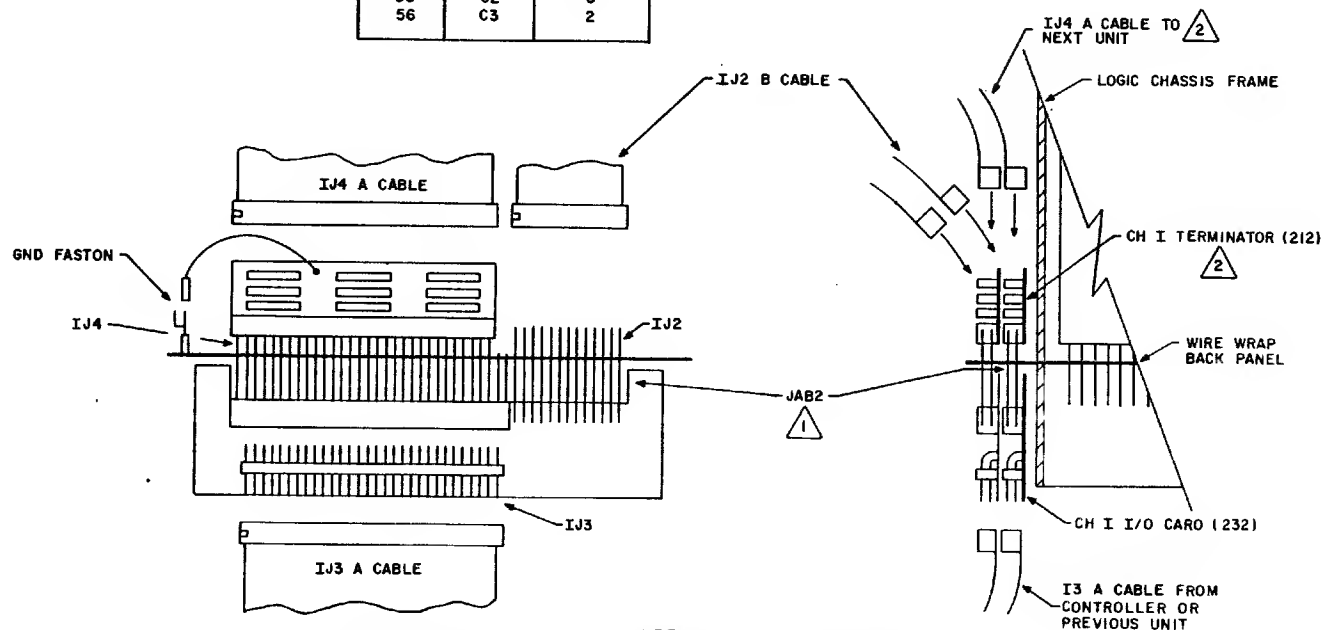
REVISION STATUS OF SHEETS																			
I	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A	A																		
B	B																		
C	C																		

REVISIONS				
REV.	ECO	DESCRIPTION	DRFT	DATE
A	PE23000	RELEASED		
B	PE48402	CORRECT DIAGRAMS	WEB	12-17-76
C	PE55992	ADD GROUNDS	CB	2-6-80

UNUSED RESISTORS		
VALVE	LOCATION	OUTPUT PIN(S)
56	A2	2,4,6
56	C2	3
56	C3	2

NOTE

- 1 FEED THROUGH W/W PINS MAKE CONTACT TO BOTH TERMINATOR AND I/O CARD
- 2 TERMINATOR IS REQUIRED IN PLACE OF IJ4 A CABLE ON THE LAST UNIT IN A DAISY CHAIN CONFIGURATION AND ON ALL UNITS IN A STAR CONFIGURATION



APPLICABLE TO 60 PIN I/O

DRAWN	G. Rouse	W. W.
CHECKED		
ENGINEER		
APPROVED		

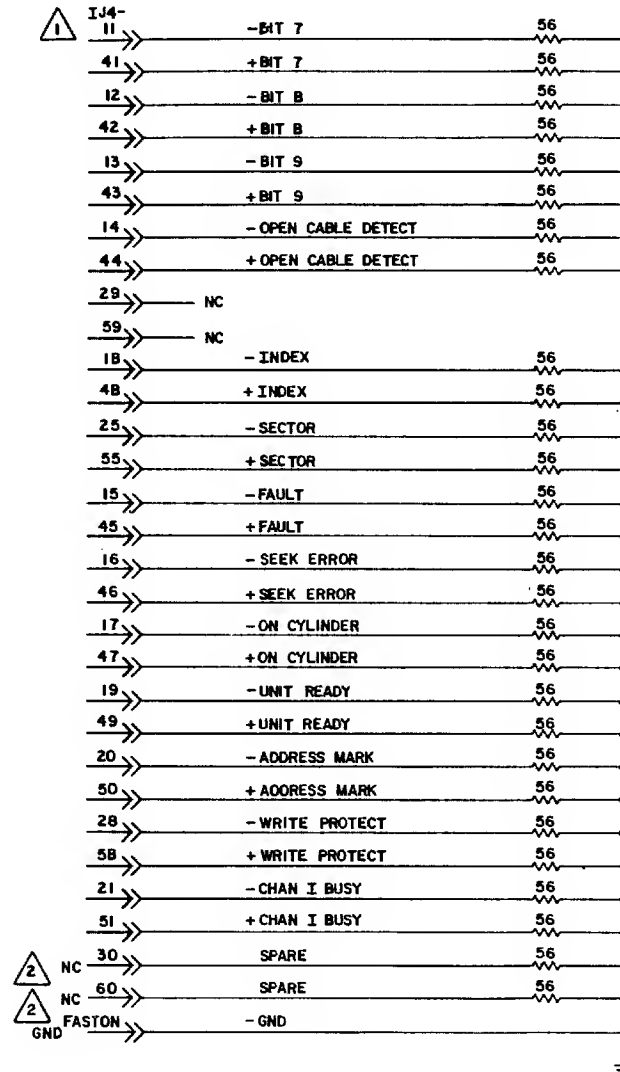
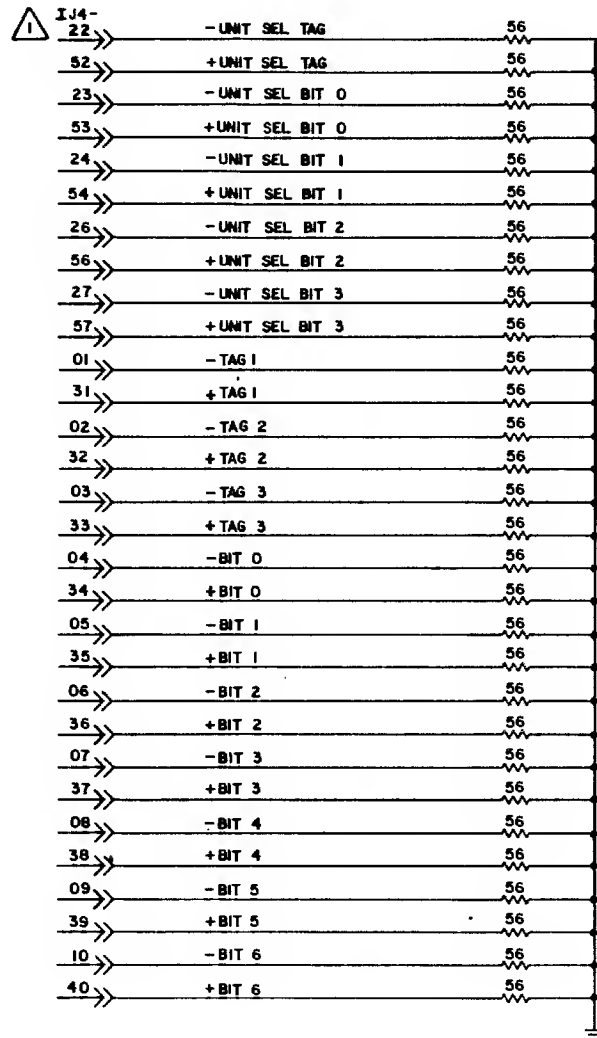
CONTROL DATA	
INFORMATION	
NORMANDELL	DIVISION

CHANNEL I TERMINATOR DIAGRAMS

TYPE: AYOV

LOC A2C1

CODE IDENT	19333	C	83322240	P	C
CHASSIS REF NO.	211	SHEET	1 OF 2	PAGE	1-133



NOTE

1 TERMINATOR IS USED ON ALL DRIVES IN STAR CABLING CONFIGURATION, AND ON LAST DRIVE IN STRING IN DAISY CHAIN CONFIGURATION. TERMINATOR PIN NUMBERING IS PIN FOR PIN COMPATIBLE WITH CONNECTOR J4. SEE CROSS REFERENCE NUMBER 232 FOR DETAILS.

2 NC FOR ALL UNITS EXCEPT BK5C4C/D AND BK5A7V/W. LINES ARE GROUNDED FOR THESE UNITS.

CONTROL DATA
CORPORATION
NORMANDEALE
DIVISION

CHANNEL I TERMINATOR

(60 PIN I/O)

LOC. A2C1

CODE IDENT

19333

C

83322240

P

C

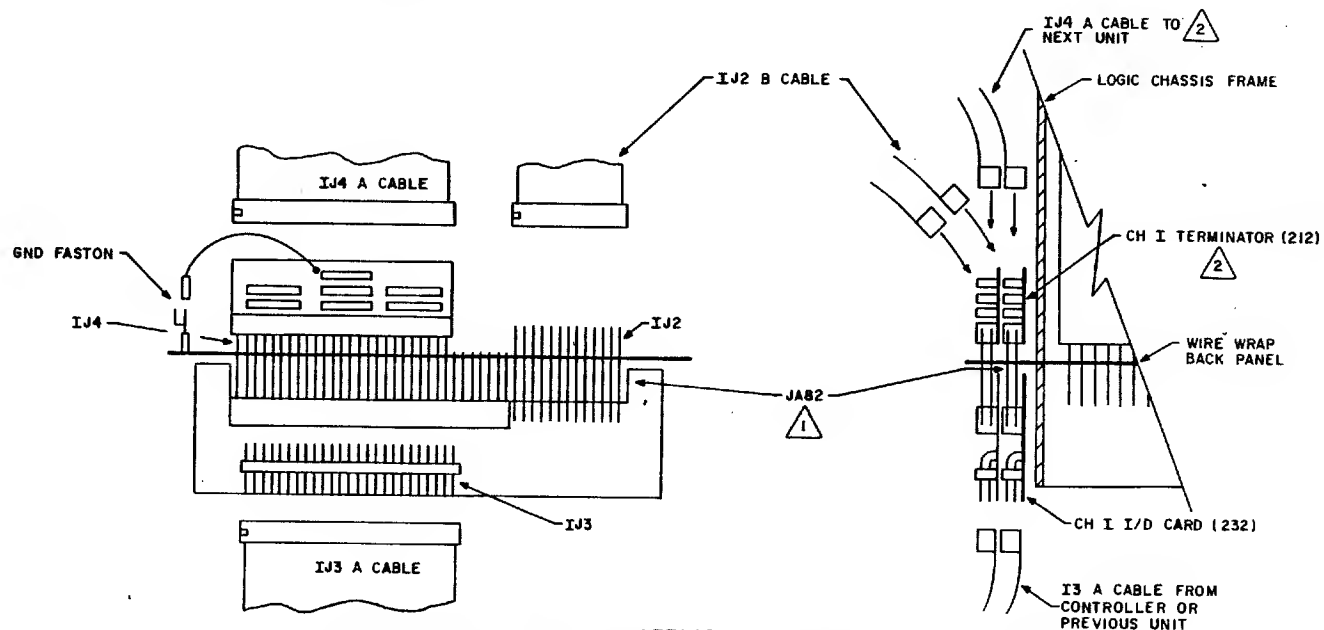
REV. 212

SHEET 2

PAGE 1-134

[illegible][illegible]

VALVE	LOCATION	OUTPUT PIN(S)
56	B2	3



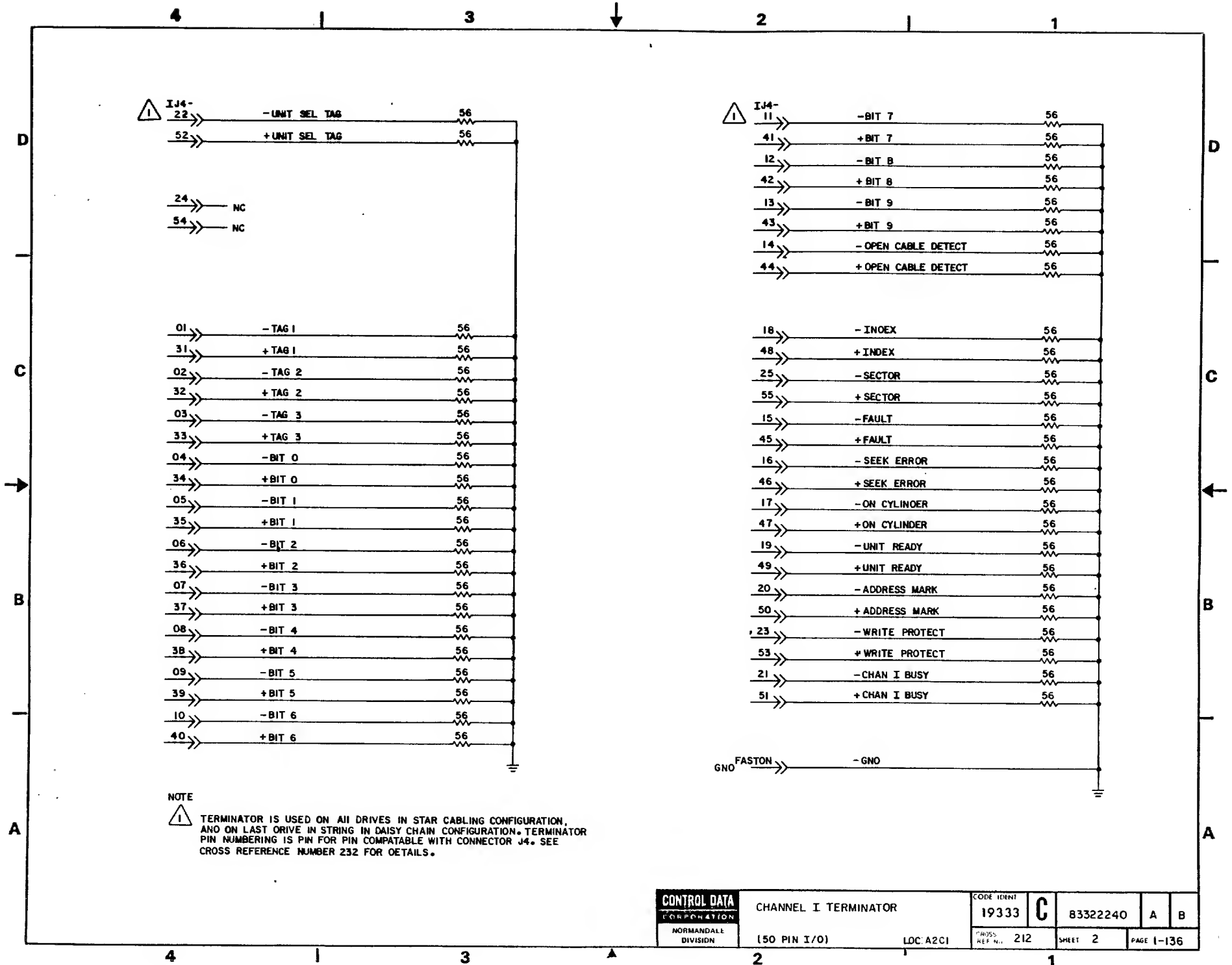
- 1 FEED THROUGH W/W PINS MAKE CONTACT TO BOTH, TERMINATOR AND I/O CARD
- 2 TERMINATOR IS REQUIRED IN PLACE OF IJ4 A CABLE ON THE LAST UNIT IN A DAISY CHAIN CONFIGURATION, AND ON ALL UNITS IN A STAR CONFIGURATION

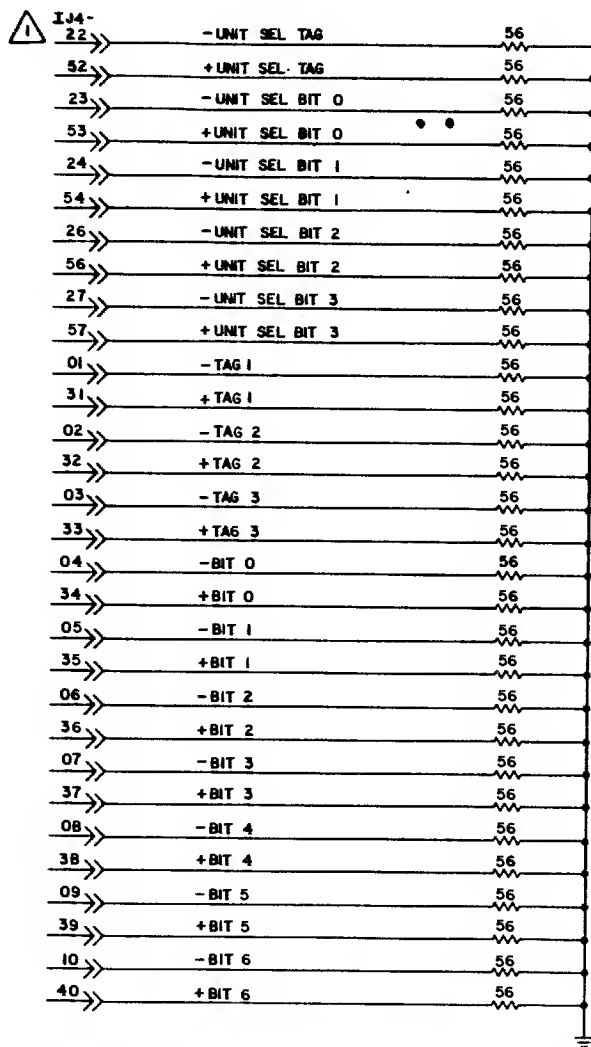
DRAWN	G. RAINE	W/7/76	CONTROL DATA INFORMATION NORMANDE DIVISION
CHECKED			
ENGINEER			
APPROVED			

TYPE BYDV

CODE IDENT	C	83322240	K	B	
19333					
MISS REF N.	211	SHEET 1 OF 2	PAGE 1-135		

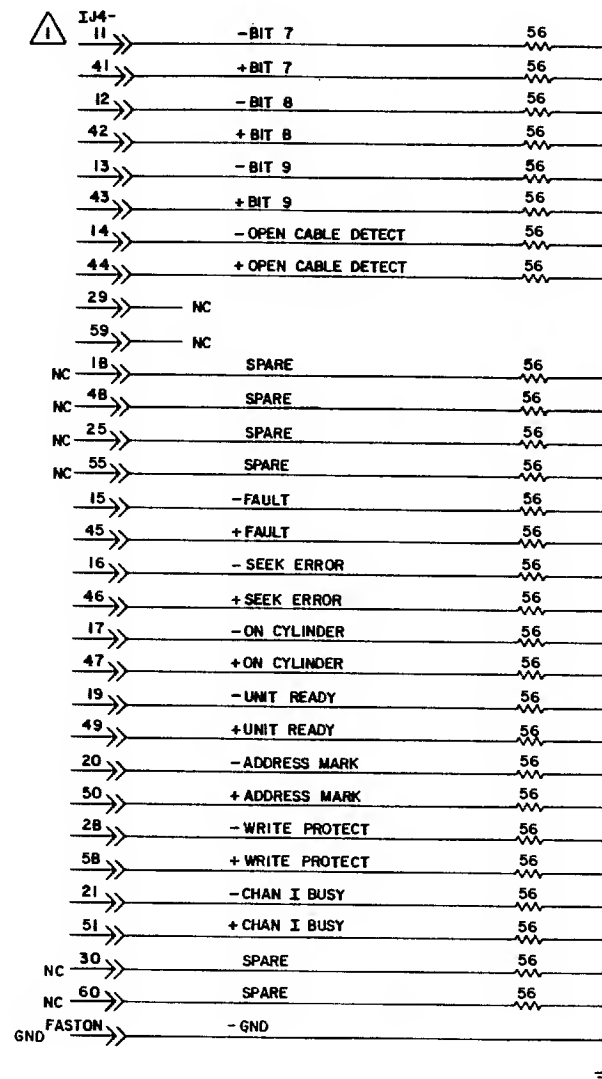
REF 83214842





NOTE

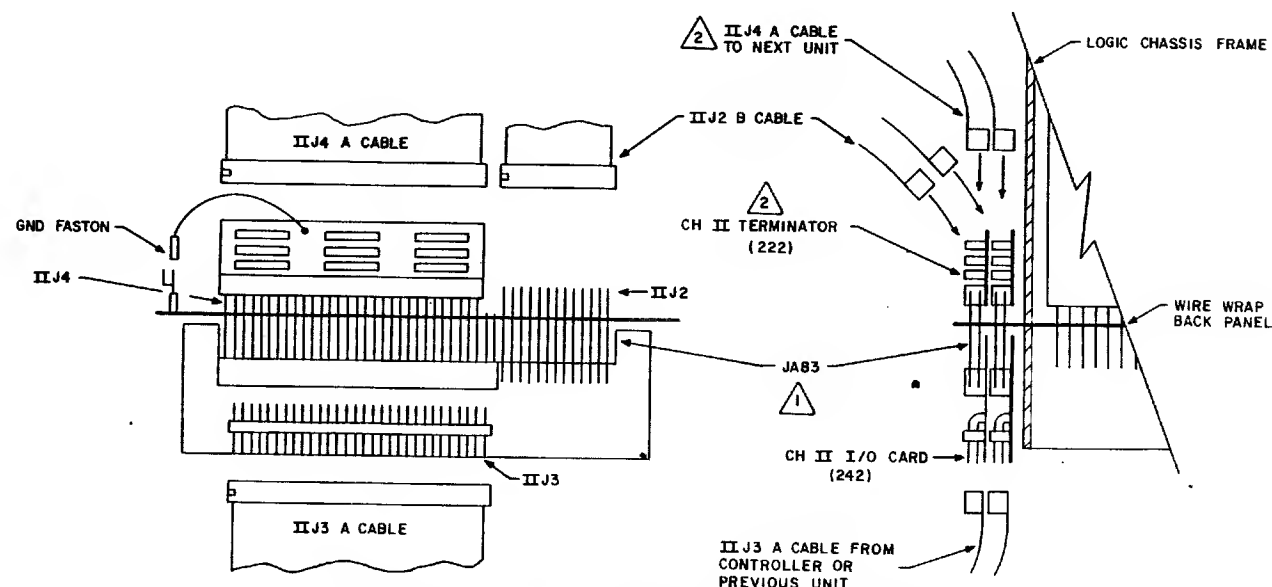
1 TERMINATOR IS USED ON ALL DRIVES IN STAR CABLING CONFIGURATION, AND ON LAST DRIVE IN STRING IN DAISY CHAIN CONFIGURATION. TERMINATOR PIN NUMBERING IS PIN FOR PIN COMPATIBLE WITH CONNECTOR J4. SEE CROSS REFERENCE NUMBER 232 FOR DETAILS.



REVISION STATUS OF SHEETS																				
I	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
A	A																			
B	B																			
C	C																			

REVISIONS					
REV	ECO	DESCRIPTION	DRFT	DATE	CHK'D
A	PE23000	RELEASE			
B	PE48402	CORRECT DIAGRAMS	WEB	12-17-76	
C	PE55992	ADD GROUNDS	CB	2-6-80	

UNUSED RESISTORS		
VALUE	LOCATION	OUTPUT PIN(S)
56	A2	2,4,6
56	C2	3
56	C3	2



- NOTE
- 1 FEED THROUGH W/W PINS MAKE CONTACT TO BOTH, TERMINATOR AND I/O CARD
 - 2 TERMINATOR IS REQUIRED IN PLACE OF IIJ4 A CABLE ON THE LAST UNIT IN A DAISY CHAIN CONFIGURATION AND ON ALL UNITS IN A STAR CONFIGURATION

DRAWN	G. RAGINE	12/1/76
CHECKED		
ENGINEER		
APPROVED		

CONTROL DATA CORPORATION
NORMANDALE DIVISION

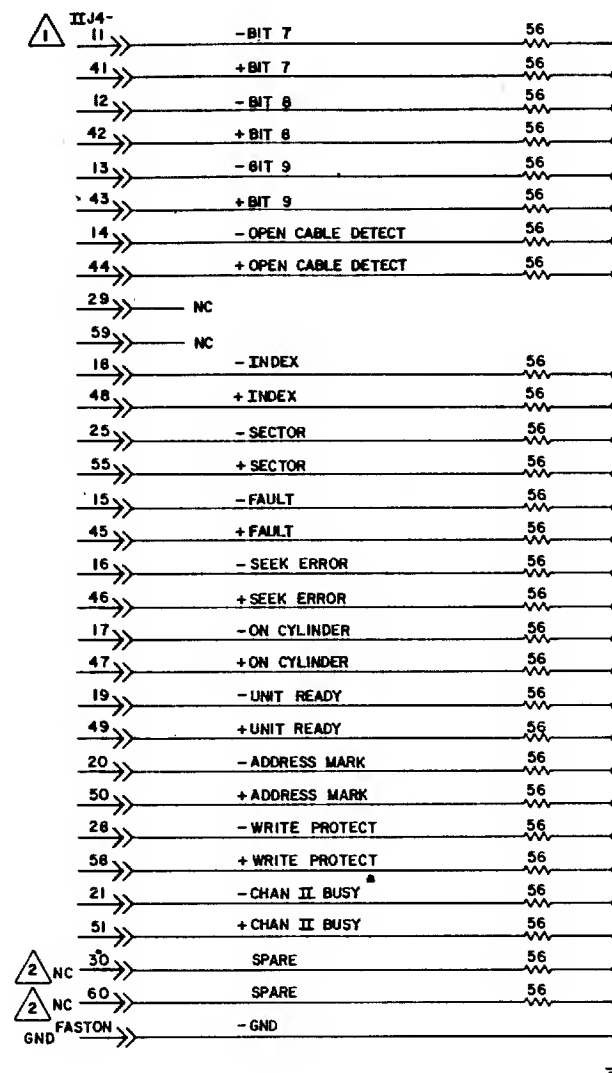
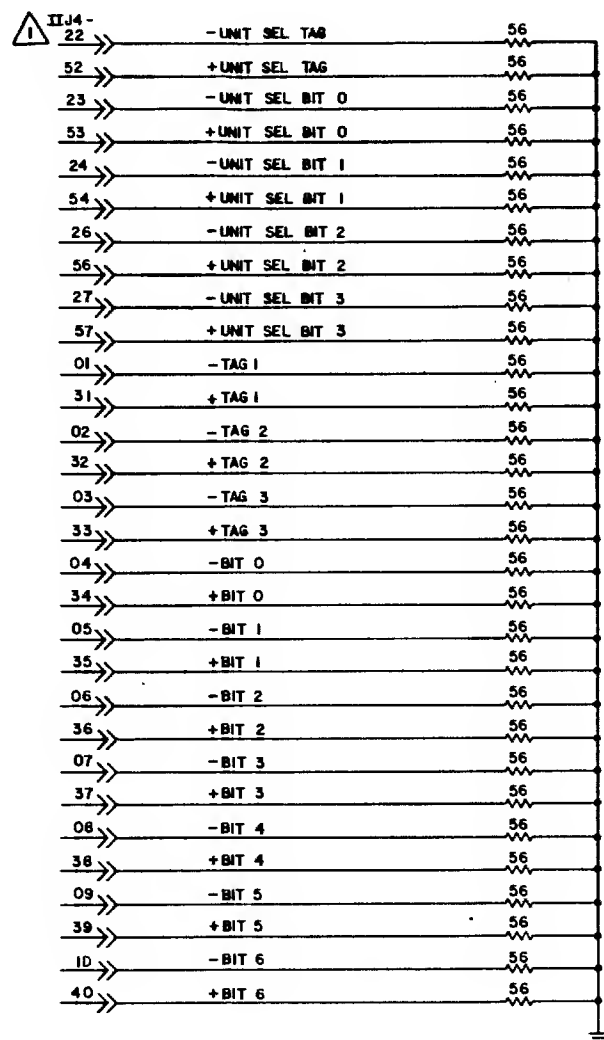
APPLICABLE TO 60 PIN I/O

CHANNEL II TERMINATOR DIAGRAMS

TYPE AYDV

LOC A2C2

CODE IDENT	19333	C	83322240	P	C
SHEET	221	1 OF 2	PAGE	1-139	



NOTE

1 TERMINATOR IS USED ON ALL DRIVES IN STAR CABLING CONFIGURATION, AND ON LAST DRIVE IN STRING IN DAISY CHAIN CONFIGURATION. TERMINATOR PIN NUMBERING IS PIN FOR PIN COMPATIBLE WITH CONNECTOR J4. SEE CROSS REFERENCE NUMBER 242 FOR DETAILS.

2 NC FOR ALL UNITS EXCEPT BK5C4C/D AND BK5A7V/W. LINES ARE GROUNDED FOR THESE UNITS.

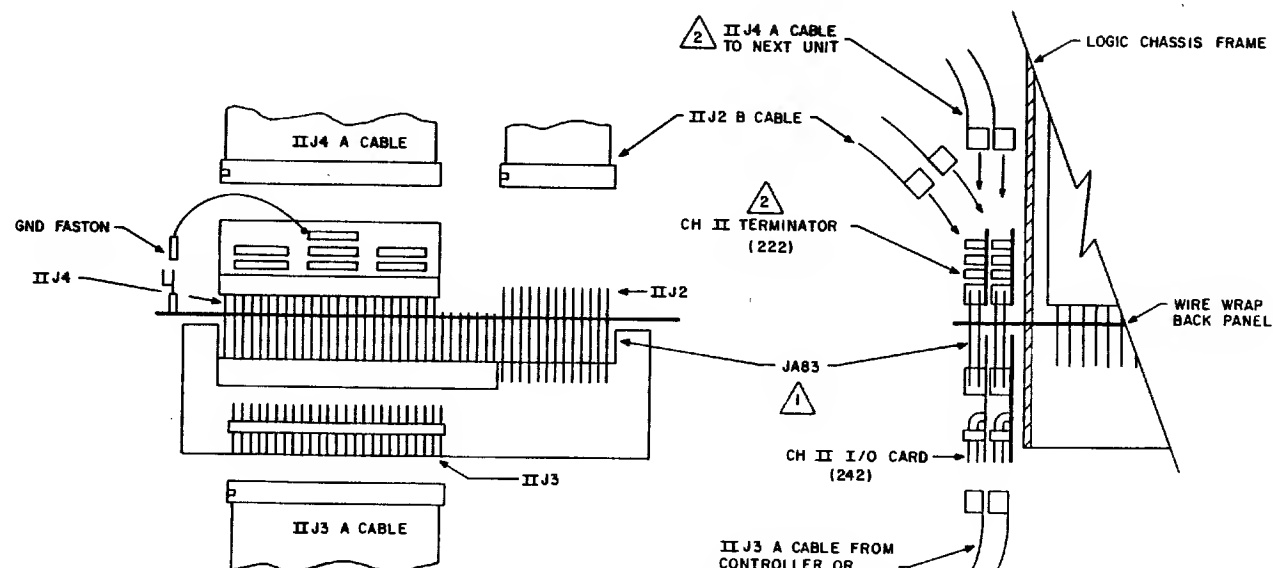
CONTROL DATA
NORMANDALE
DIVISION

CHANNEL II TERMINATOR
(60 PIN I/O)

CODE IDENT 19333	C	83322240	P	C
CROSS REF NO 222	SHEET 2	PAGE 1-140		

[illegible][illegible]

VALUE	LOCATION	OUTPUT PIN(S)
56	B2	3



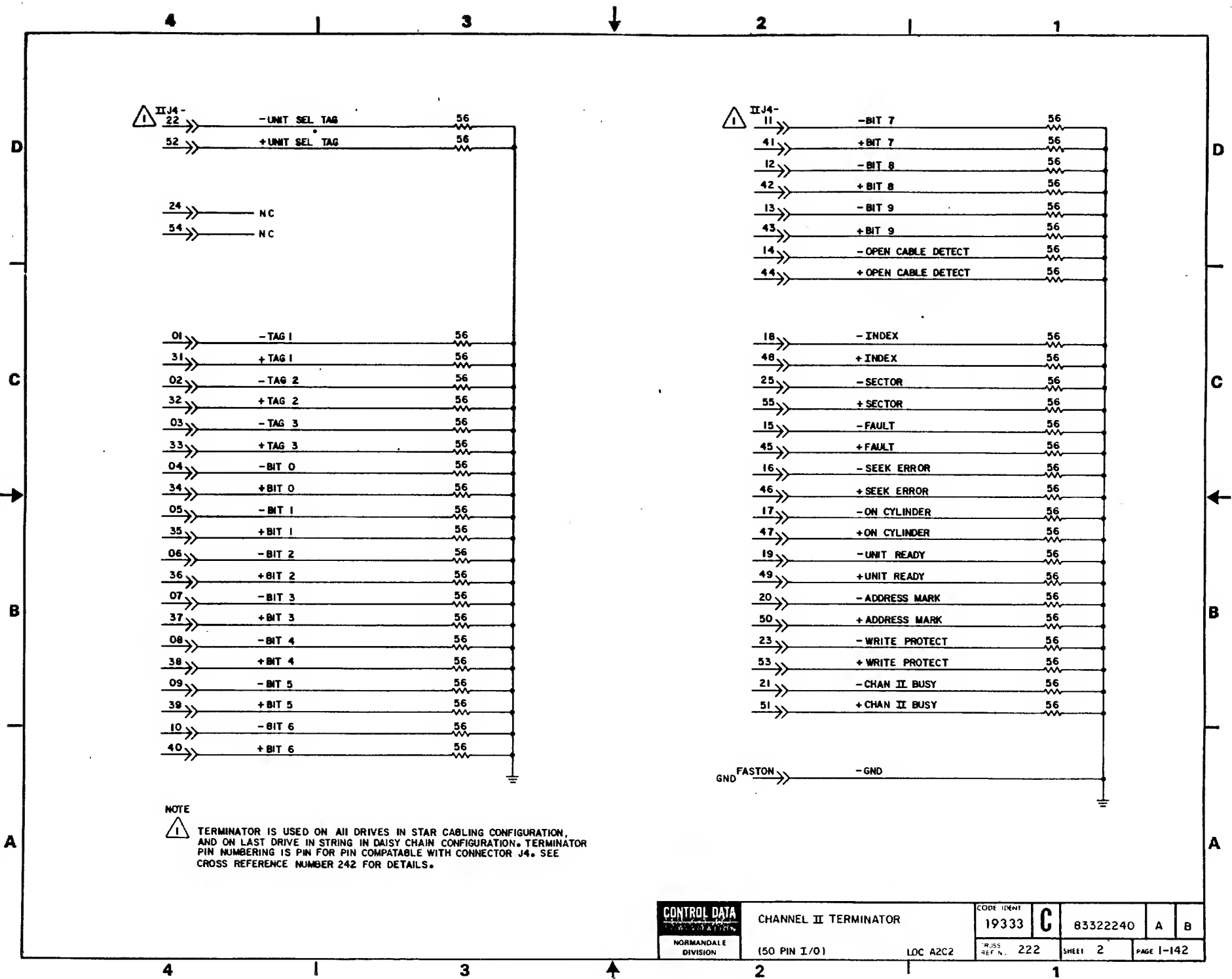
NOTE

1 FEED THROUGH W/W PINS MAKE CONTACT TO BOTH TERMINATOR AND I/O CARD

2 TERMINATOR IS REQUIRED IN PLACE OF IIJ4 A CABLE ON THE LAST UNIT IN A DAISY CHAIN CONFIGURATION AND ON ALL UNITS IN A STAR CONFIGURATION

DRAWN		CONTROL DATA CORPORATION NORMANVILLE DIVISION	CHANNEL II TERMINATOR DIAGRAMS		CODE IDENT	C	83322240	K	B		
CHECKED					19333						
ENGINEER			TYPE BYDV		UNLESS REF NO		221	SHEET	1 of 2	PAGE	1-141
APPROVED			LOC A2C2								

REF 83214843



[illegible]

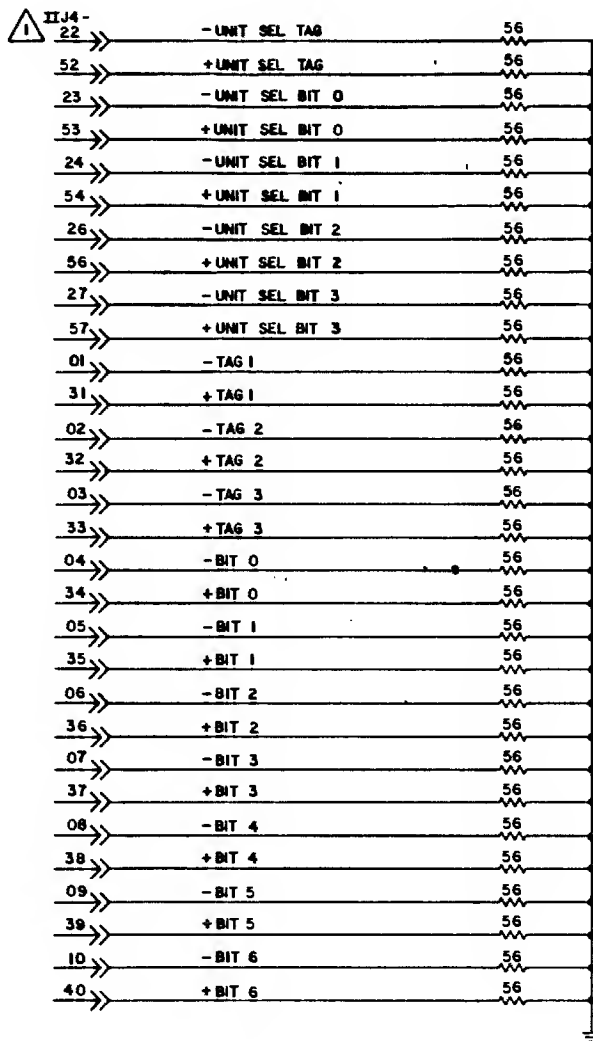
Diagram illustrating the connection of the CH II I/O Card (242) to the Logic Chassis Frame and Wire Wrap Back Panel.

Key components and connections shown:

- CH II I/O CARD (242)**: The central component being connected.
- LOGIC CHASSIS FRAME**: The main structure housing the components.
- WIRE WRAP BACK PANEL**: The interface for connecting the card to the chassis frame.
- IIJ4 A CABLE**: Connected to the top of the card.
- IIJ2 B CABLE**: Connected to the top of the card.
- IIJ2**: A component on the card.
- IIJ3**: A component on the card.
- IIJ3 A CABLE**: Connected to the bottom of the card.
- GND FASTON**: A ground connection point on the card.
- IIJ4**: A component on the card.
- JA83**: A connector on the card.
- CH II TERMINATOR (222)**: A terminator connected to the card.
- IIJ4 A CABLE TO NEXT UNIT**: A cable connection from the top of the card.
- IIJ3 A CABLE FROM CONTROLLER OR PREVIOUS UNIT**: A cable connection from the bottom of the card.

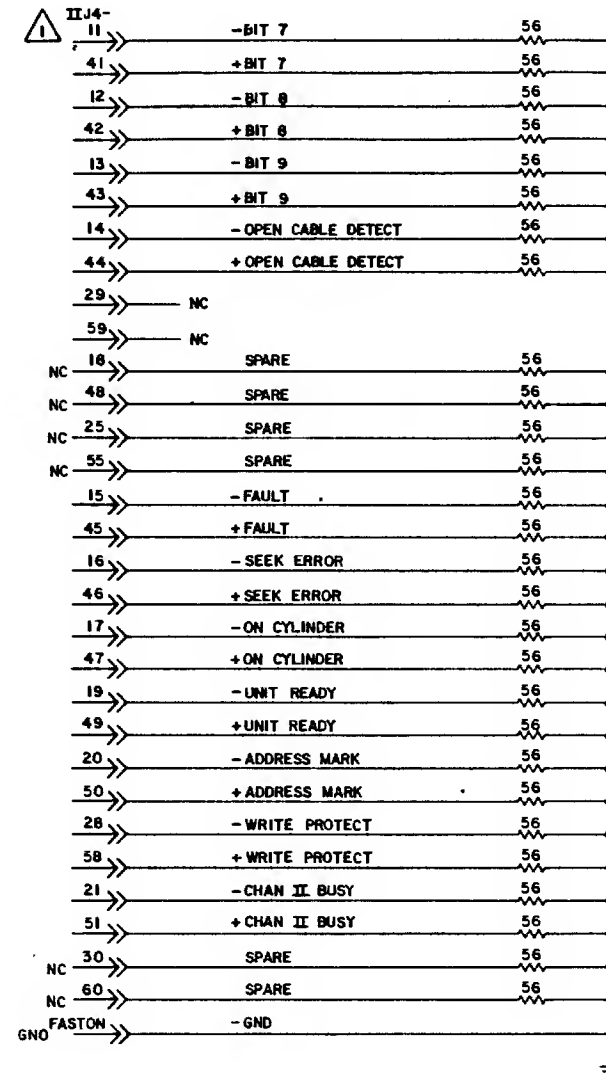
- 1 FEED THROUGH W/W PINS MAKE CONTACT TO BOTH, TERMINATOR AND I/O CARD.
- 2 TERMINATOR IS REQUIRED IN PLACE OF IIJ4 A CABLE ON THE LAST UNIT IN A DAISY CHAIN CONFIGURATION AND ON ALL UNITS IN A STAR CONFIGURATION.

REF 83214849



NOTE

1 TERMINATOR IS USED ON ALL DRIVES IN STAR CABLING CONFIGURATION, AND ON LAST DRIVE IN STRING IN DAISY CHAIN CONFIGURATION. TERMINATOR PIN NUMBERING IS PIN FOR PIN COMPATIBLE WITH CONNECTOR J4. SEE CROSS REFERENCE NUMBER 242 FOR DETAILS.



CONTROL DATA
NORMANDALE
DIVISION

CHANNEL II TERMINATOR

(S&IOBC)

LOC A2C2

CODE IDENT
19333

C

83322240

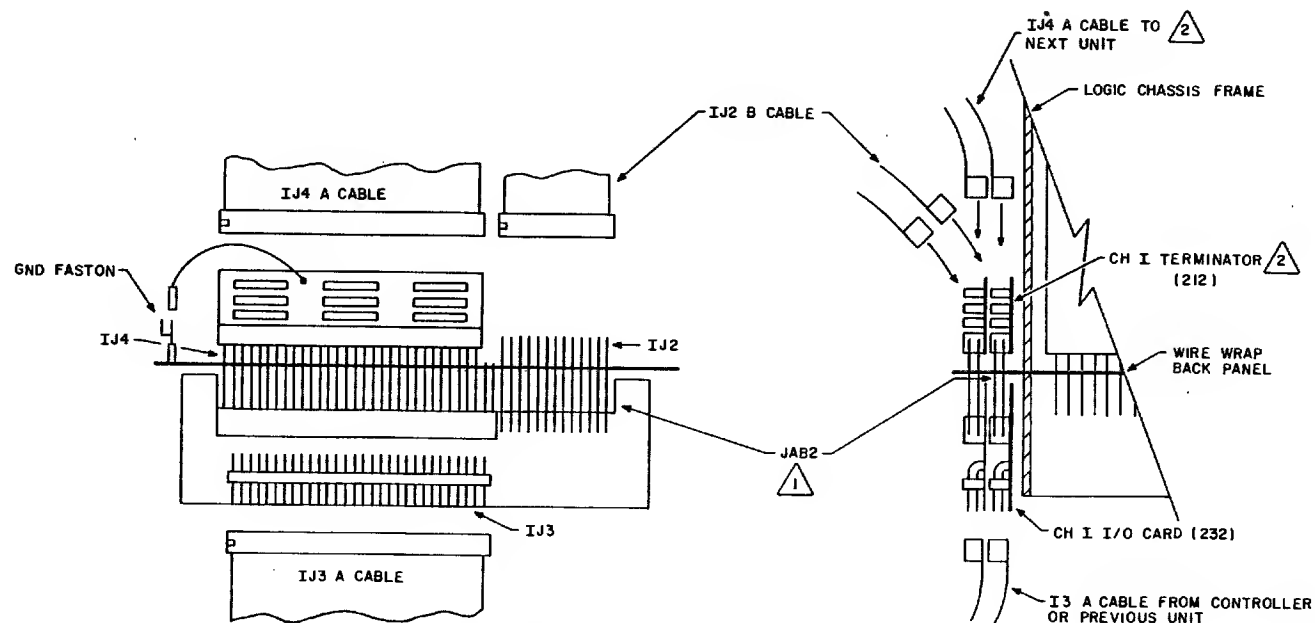
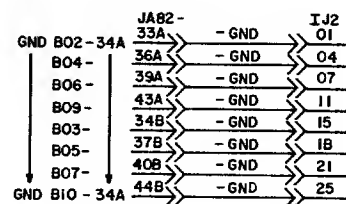
A

B

(R 255
REF. NO.) 222

SHEET 2

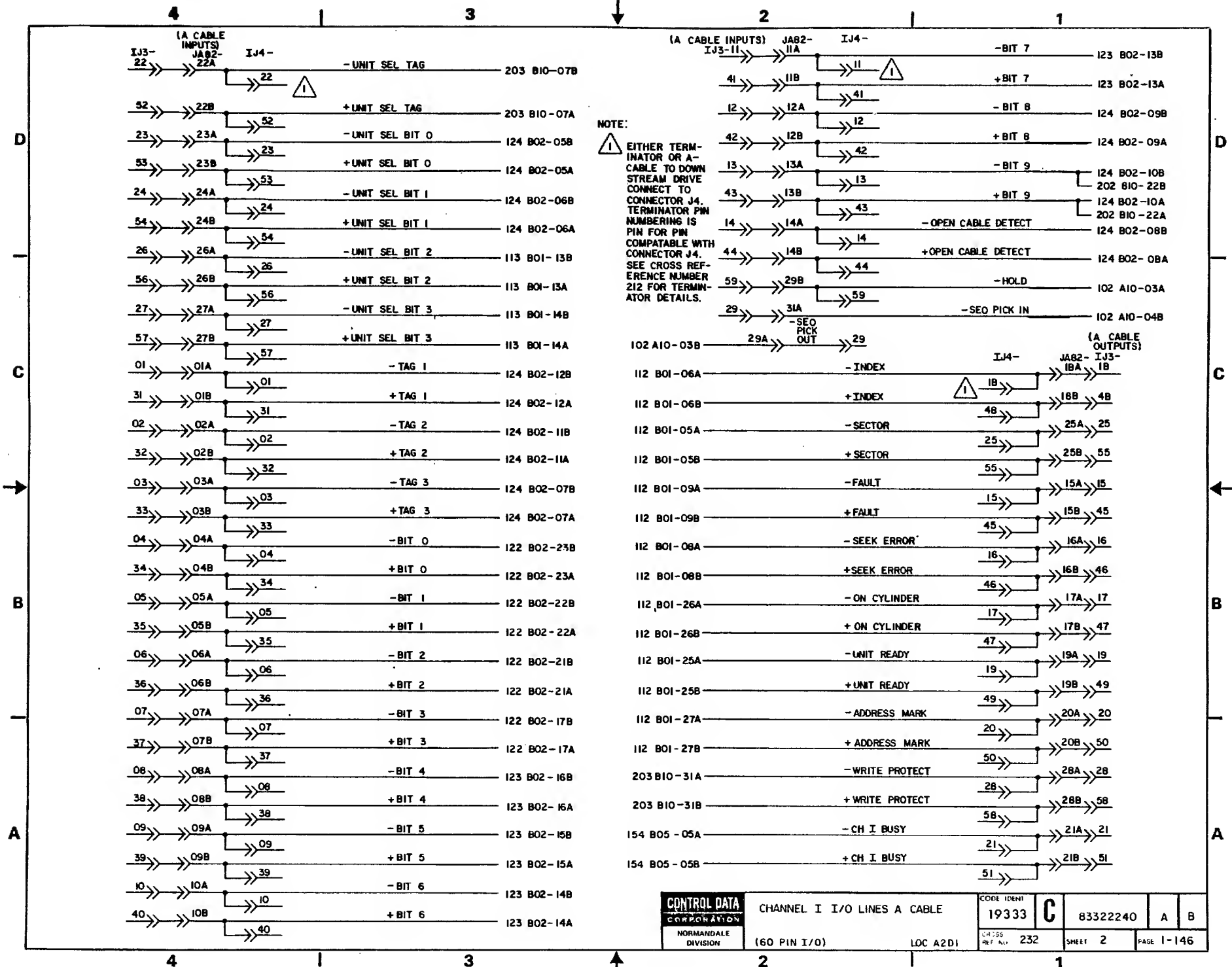
PAGE 1-144

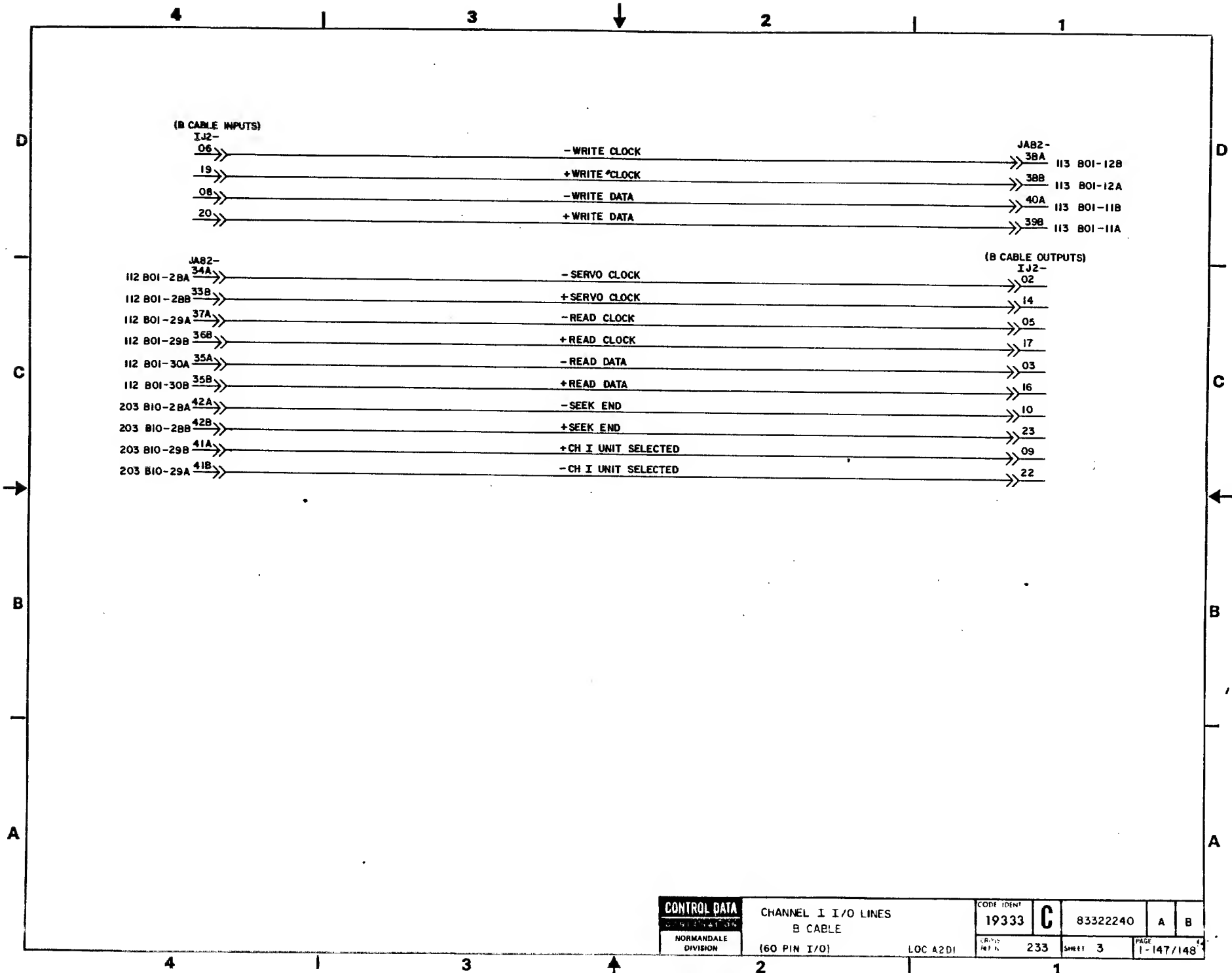
[illegible]

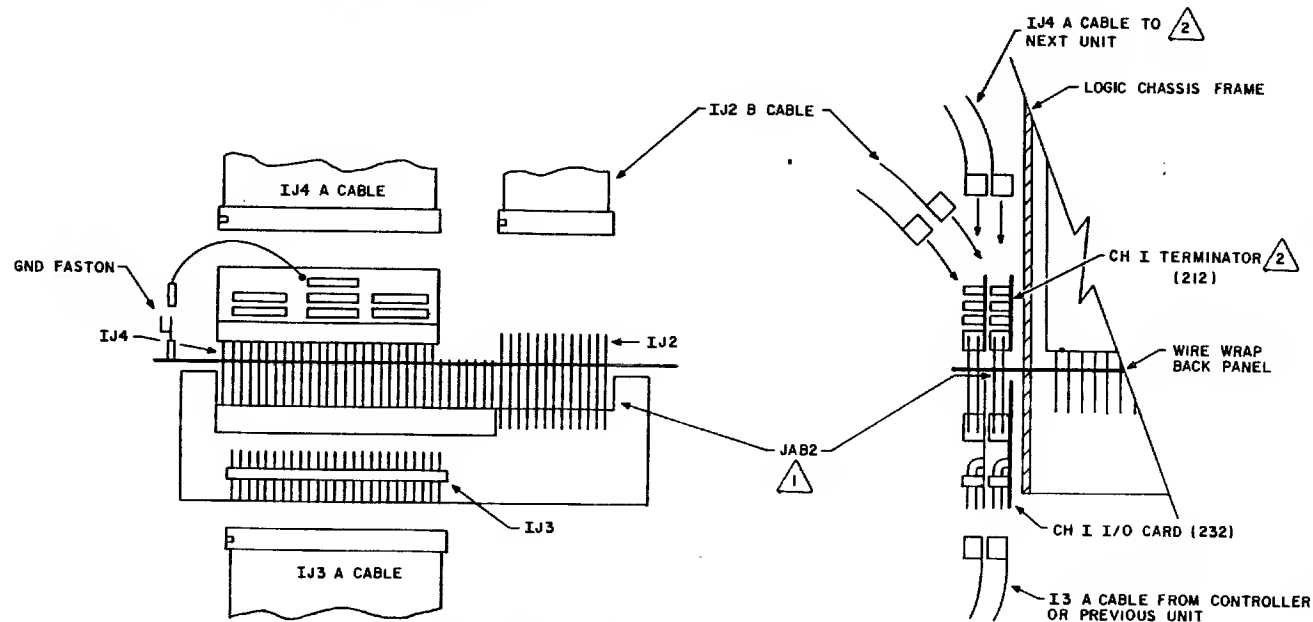
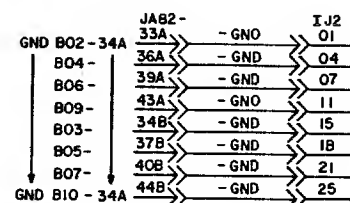
- 1 FEED THROUGH W/W PINS MAKE CONTACT TO BOTH, TERMINATOR AND I/O CARD.
- 2 TERMINATOR IS REQUIRED IN PLACE OF IJ4 A CABLE ON THE LAST UNIT IN A DAISY CHAIN CONFIGURATION AND ON ALL UNITS IN A STAR CONFIGURATION.

APPLICABLE TO 60 PIN I/O

DRAWN	G. RASINE	9/27/76	CONTROL DATA CORPORATION	CHANNEL I I/O DIAGRAMS	CODING IDENT	19333	C	83322240	K	B
CHECKED					TYPE XXV LOC A2D.					
ENGINEER										
APPROVED										
			NORMANDALL DIVISION		CROSS REF NO	231	SHEET	1 of 3	PAGE	1-145



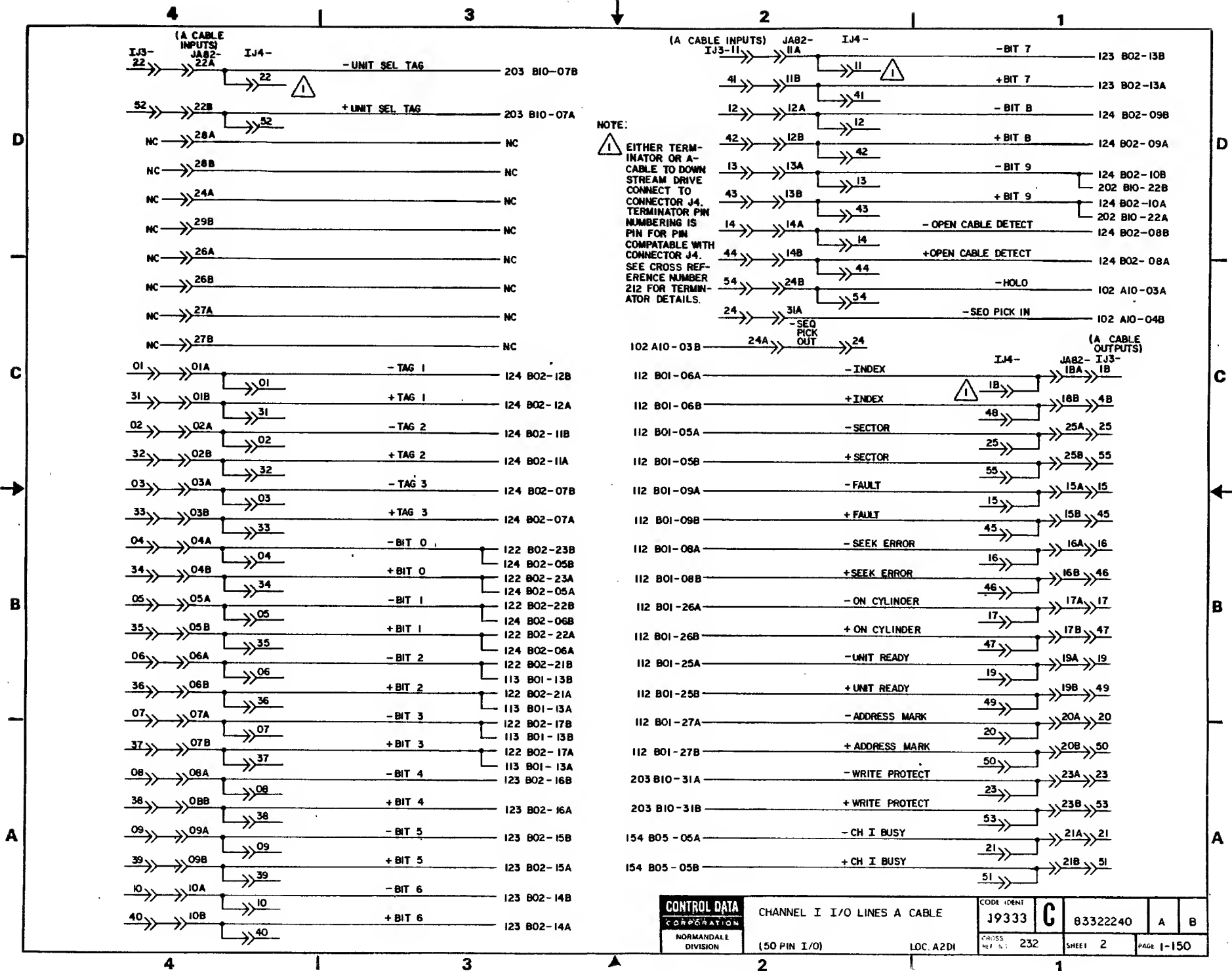


[illegible]

- 1 FEED THROUGH W/W PINS MAKE CONTACT TO BOTH, TERMINATOR AND I/O CARD
- 2 TERMINATOR IS REQUIRED IN PLACE OF IJ4 A CABLE ON THE LAST UNIT IN A DAISY CHAIN CONFIGURATION AND ON ALL UNITS IN A STAR CONFIGURATION.

APPLICABLE TO 50 PIN I/O

DRAWN	3 RAS/WR	9/27/76	CONTROL DATA CORPORATION NORMANDALE DIVISION	CHANNEL I I/O DIAGRAMS TYPE CXVY	CODE IDENT	19333	C	83322240	K	B				
CHECKED					CROSS REF NO	231					SHEET	1 of 3	PAGE	1-149
ENGINEER														
APPROVED														

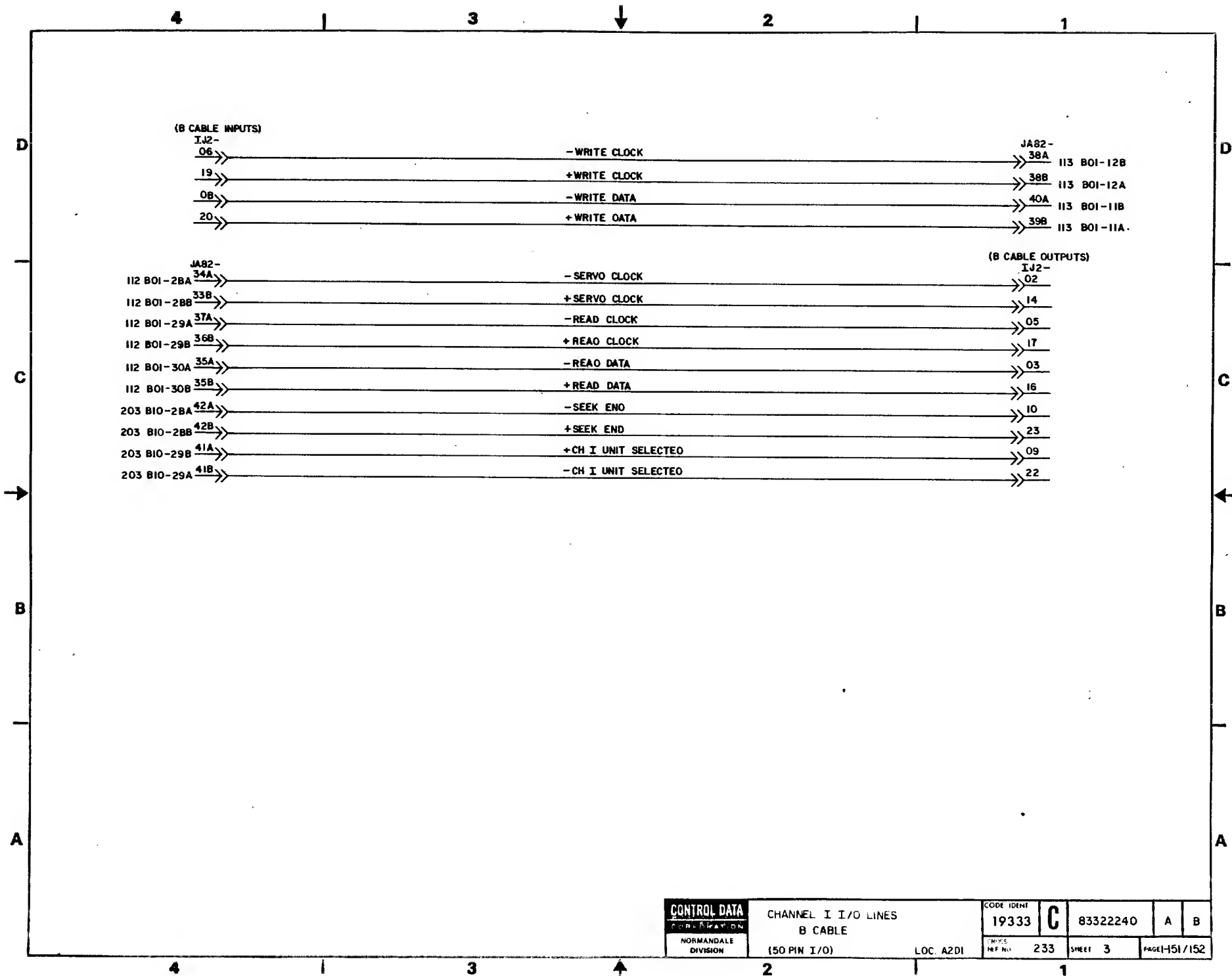


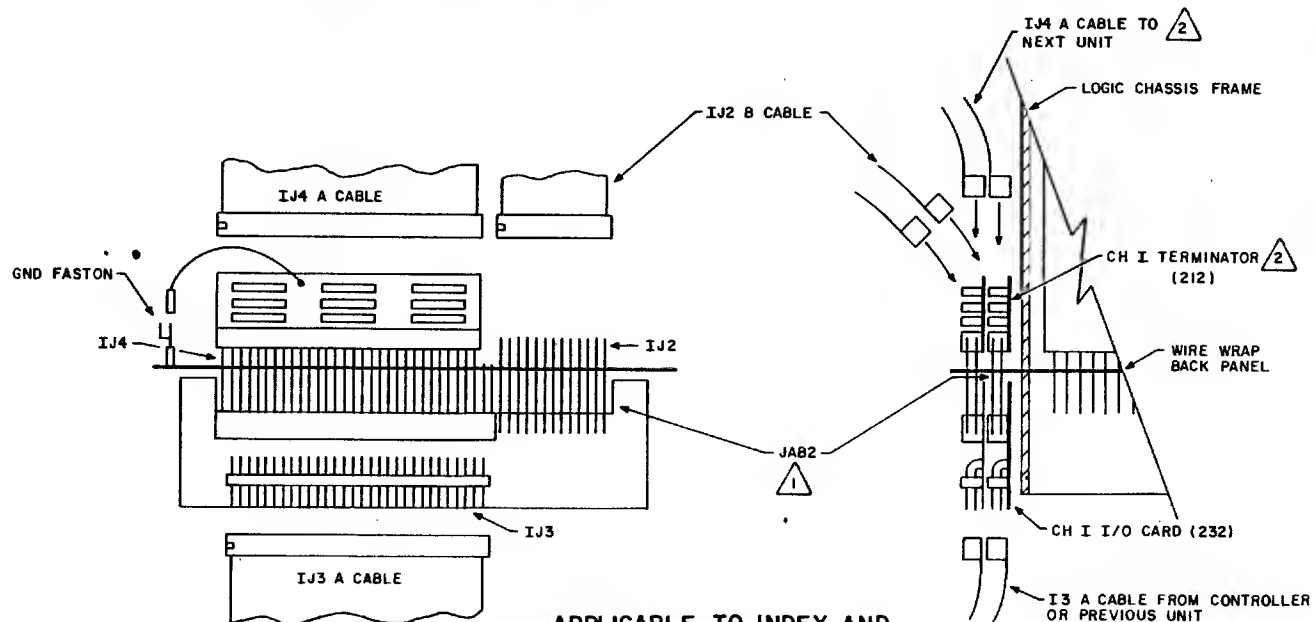
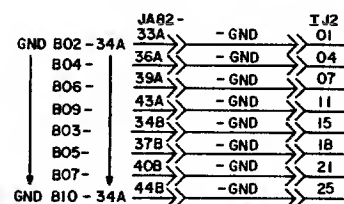
CONTROL DATA
CORPORATION
NORMANDALE
DIVISION

CHANNEL I I/O LINES A CABLE
(50 PIN I/O) LOC. A2DI

CODE IDENT
19333
PRINTED
MAY 1971

C 83322240
SHEET 2
PAGE 1-150



[illegible][illegible]

- 1 FEED THROUGH W/W PINS MAKE CONTACT TO BOTH, TERMINATOR AND I/O CARD
- 2 TERMINATOR IS REQUIRED IN PLACE OF IJ4 A CABLE ON THE LAST UNIT IN A DAISY CHAIN CONFIGURATION AND ON ALL UNITS IN A STAR CONFIGURATION.

APPLICABLE TO INDEX AND
SECTOR IN B CABLE

DRAWN	11/10/81	
CHECKED		
ENGINEER		
APPROVED		

CONTROL DATA
 NORMANDEALE
 DIVISION

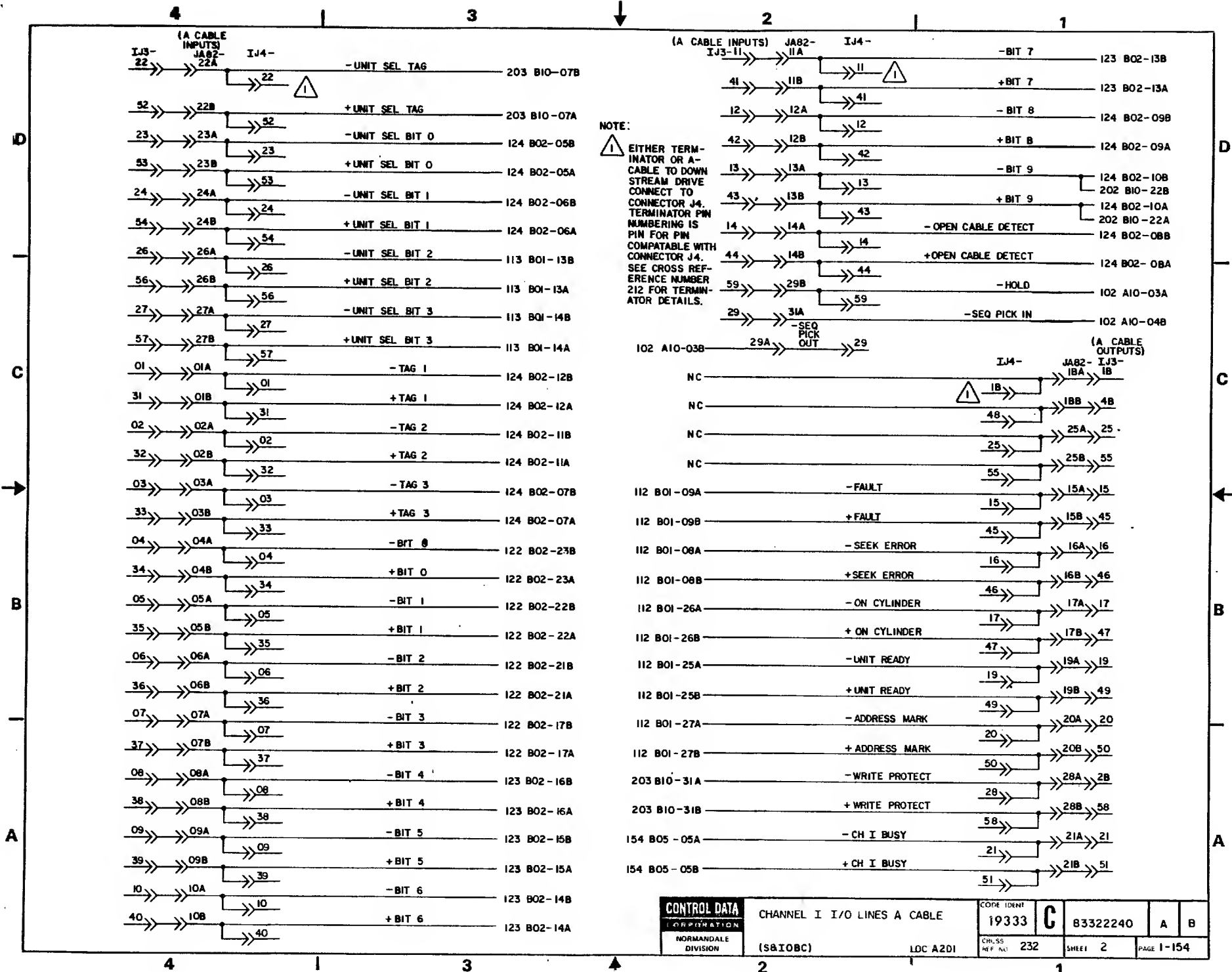
CHANNEL I I/O DIAGRAMS

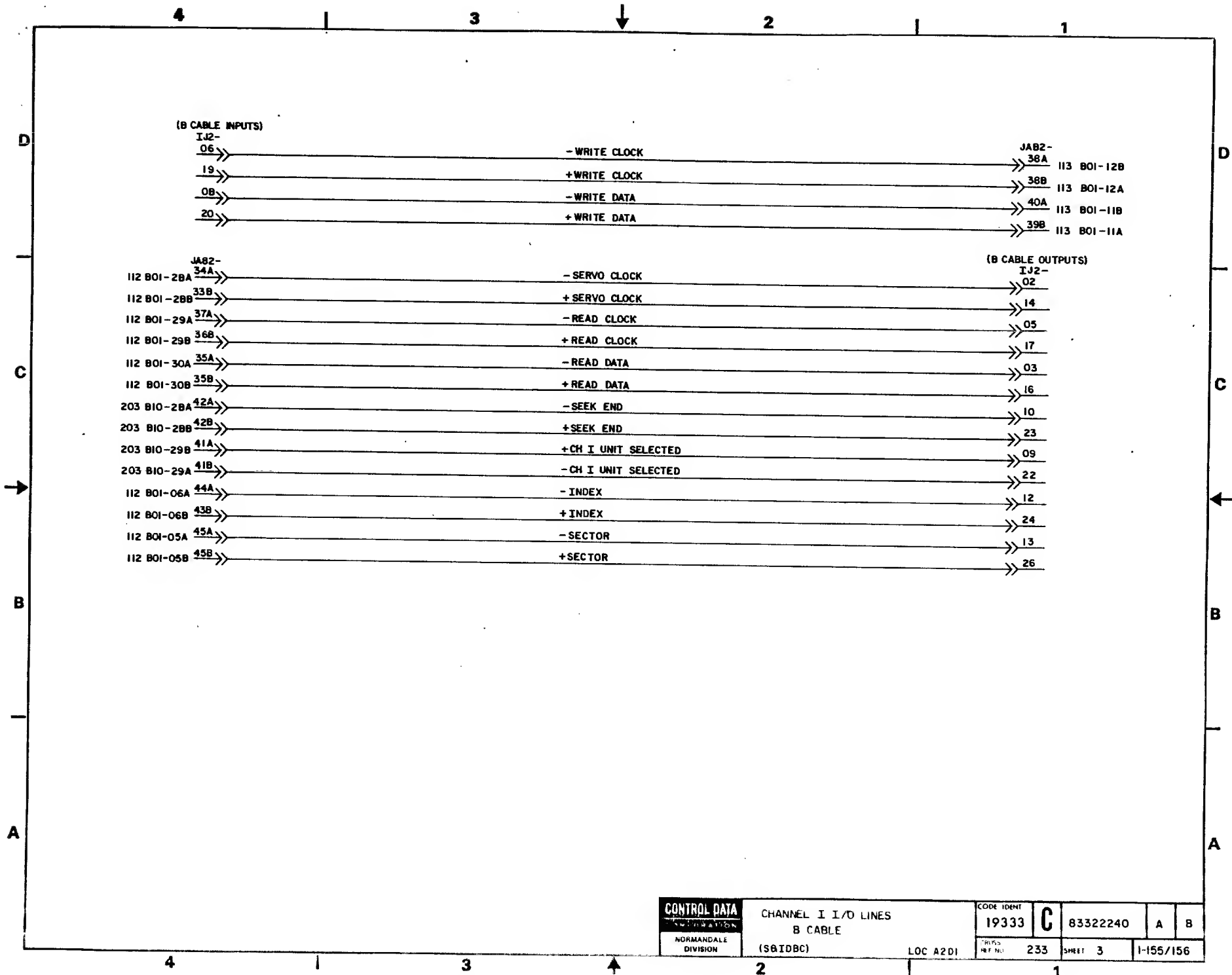
TYPE: AXYV

LOC A2D1

CODE IDENT	C	83322240	K	B
19333				
CM SS REF NO	231	SHEET 1 of 3	PAGE	1-153

REF 83214850





CONTROL DATA
CORPORATION
NORMANDALE
DIVISION

CHANNEL I I/O LINES
B CABLE
(S&IDBC)

CODE IDENT
19333

83322240

A B

SHEET 3

1-155/156

LOC A201

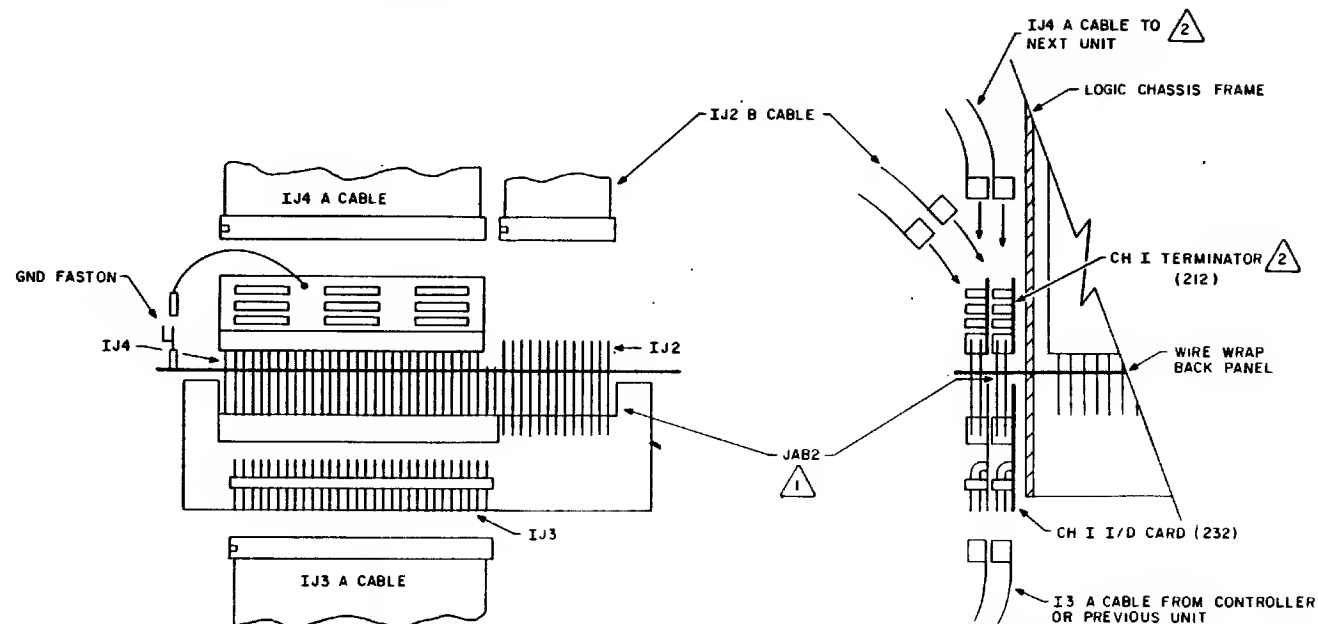
REVISION STATUS OF SHEETS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A	A	A																	

REVISIONS

REV	ECO	DESCRIPTION	DRFT	DATE	CHK'D
A	PE23000	RELEASED		11-16-73	P 21

GND B02-34A	JAB2-33A	- GND	IJ2 01
B04-	36A	- GND	04
B06-	39A	- GND	07
B09-	43A	- GND	11
B03-	34B	- GND	15
B05-	37B	- GND	18
B07-	40B	- GND	21
GND B10-34A	44B	- GND	25



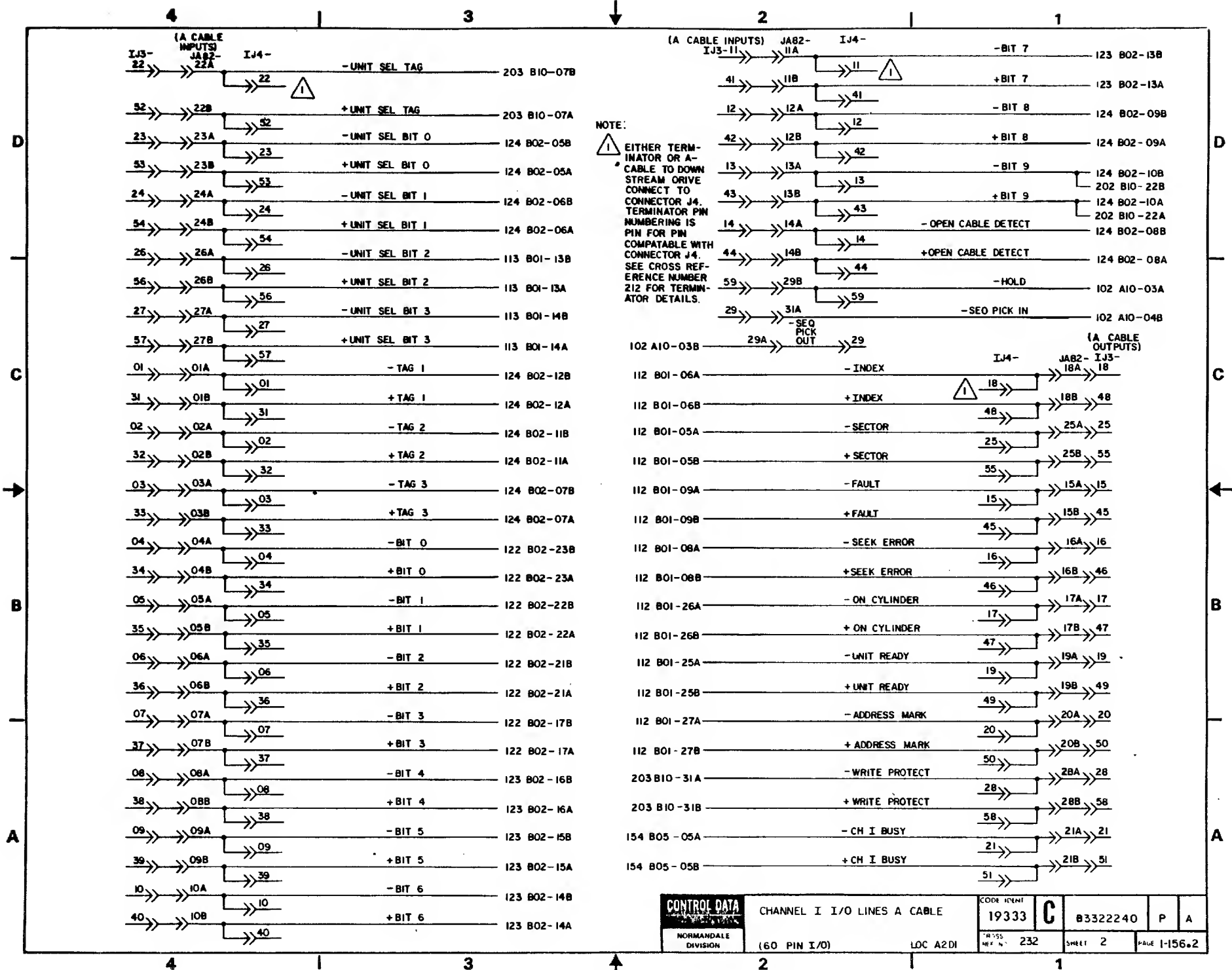
NOTE

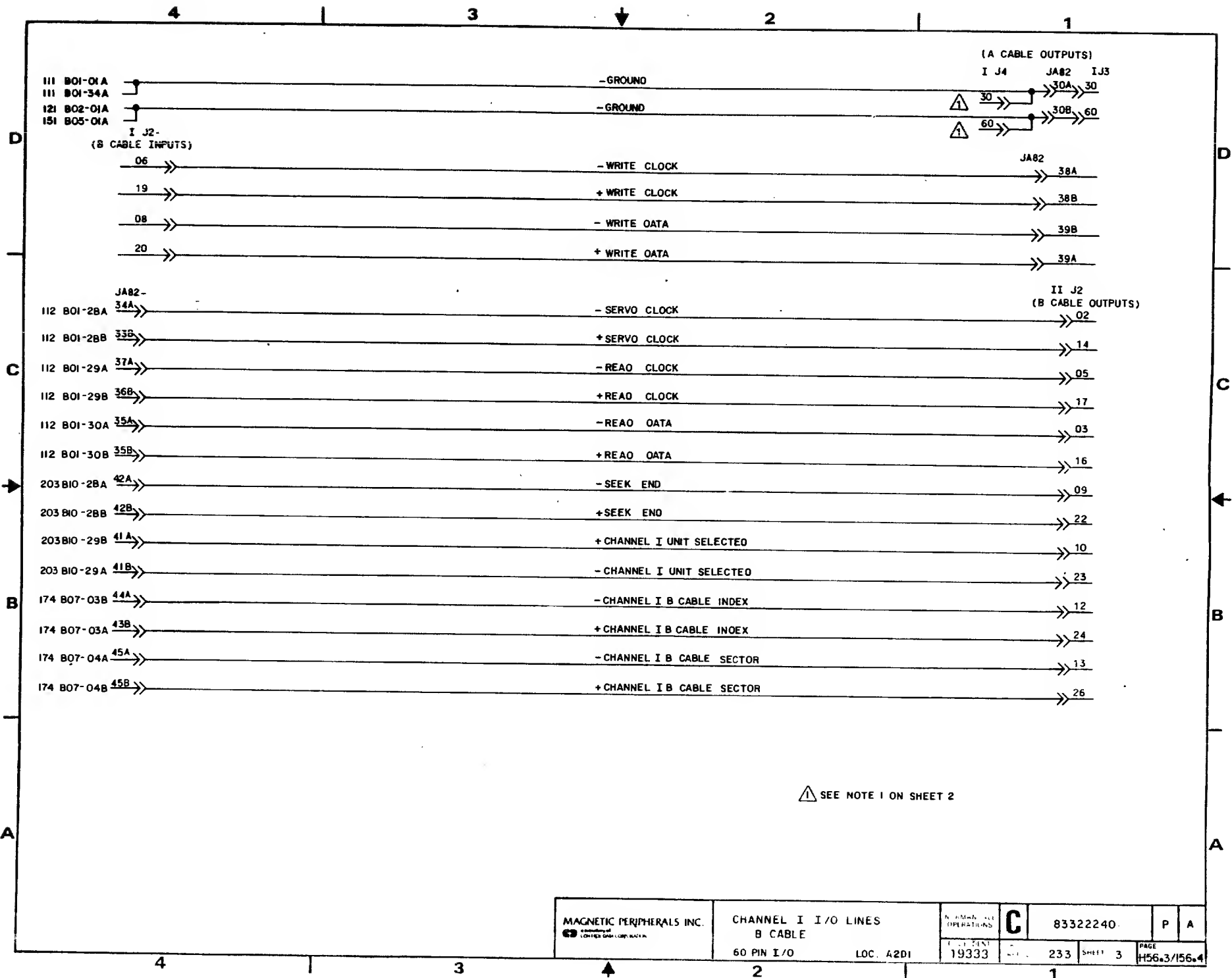
- 1 FEED THROUGH W/W PINS MAKE CONTACT TO BOTH. TERMINATOR AND I/O CARD
- 2 TERMINATOR IS REQUIRED IN PLACE OF IJ4 A CABLE ON THE LAST UNIT IN A DAISY CHAIN CONFIGURATION AND ON ALL UNITS IN A STAR CONFIGURATION

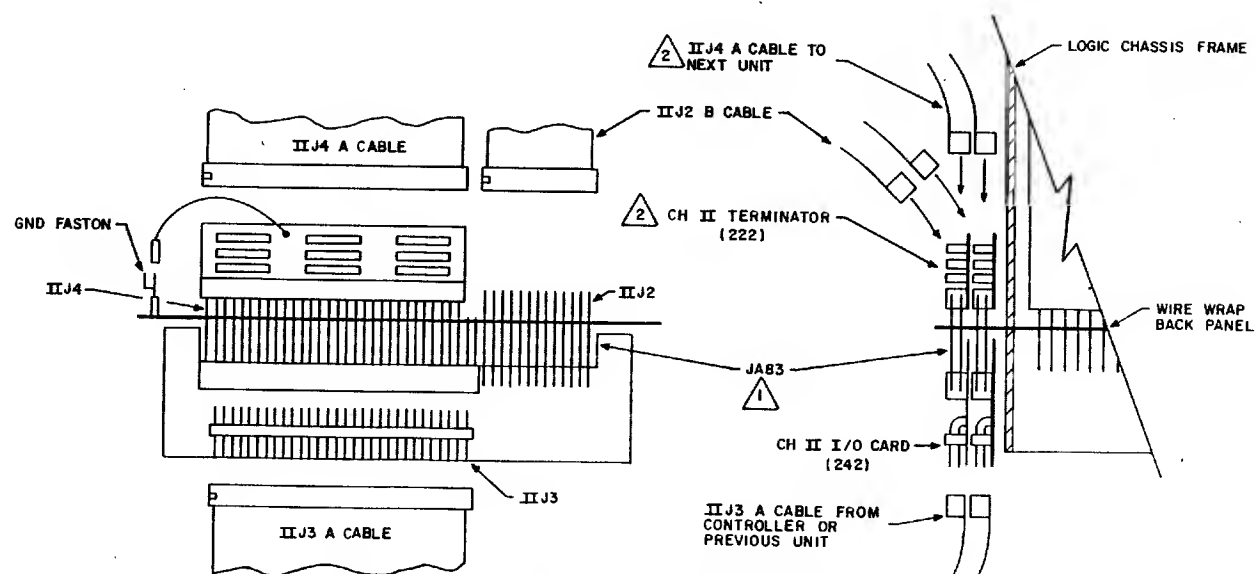
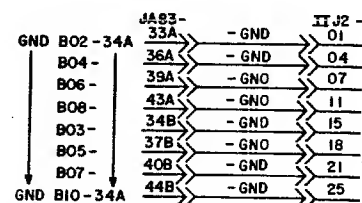
APPLICABLE TO BK5A7-V,W AND BK5C4-C,D ONLY

DRAWN	CHECKED	ENGINEER	APPROVED	CONTROL DATA CORPORATION MURKINDALE DIVISION	A AND B CABLE CHANNEL I I/O DIAGRAMS	LOC	A2DI	CODE IDENT	19333	C	83322240	P	A
					TYPE	AXYV			CROSS REF	231	SHEET	1 of 3	PAGE

REF. 83214856





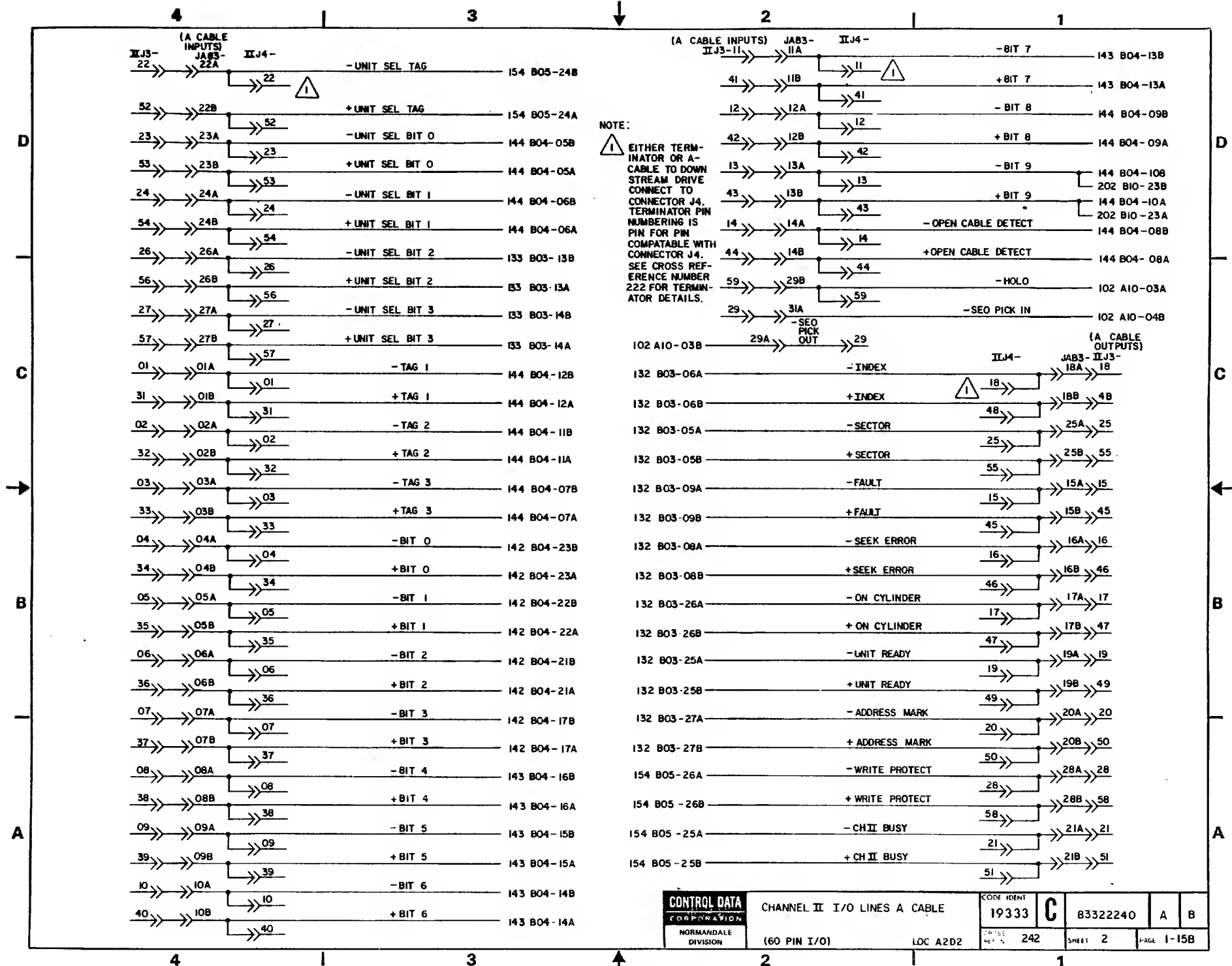
[illegible][illegible]

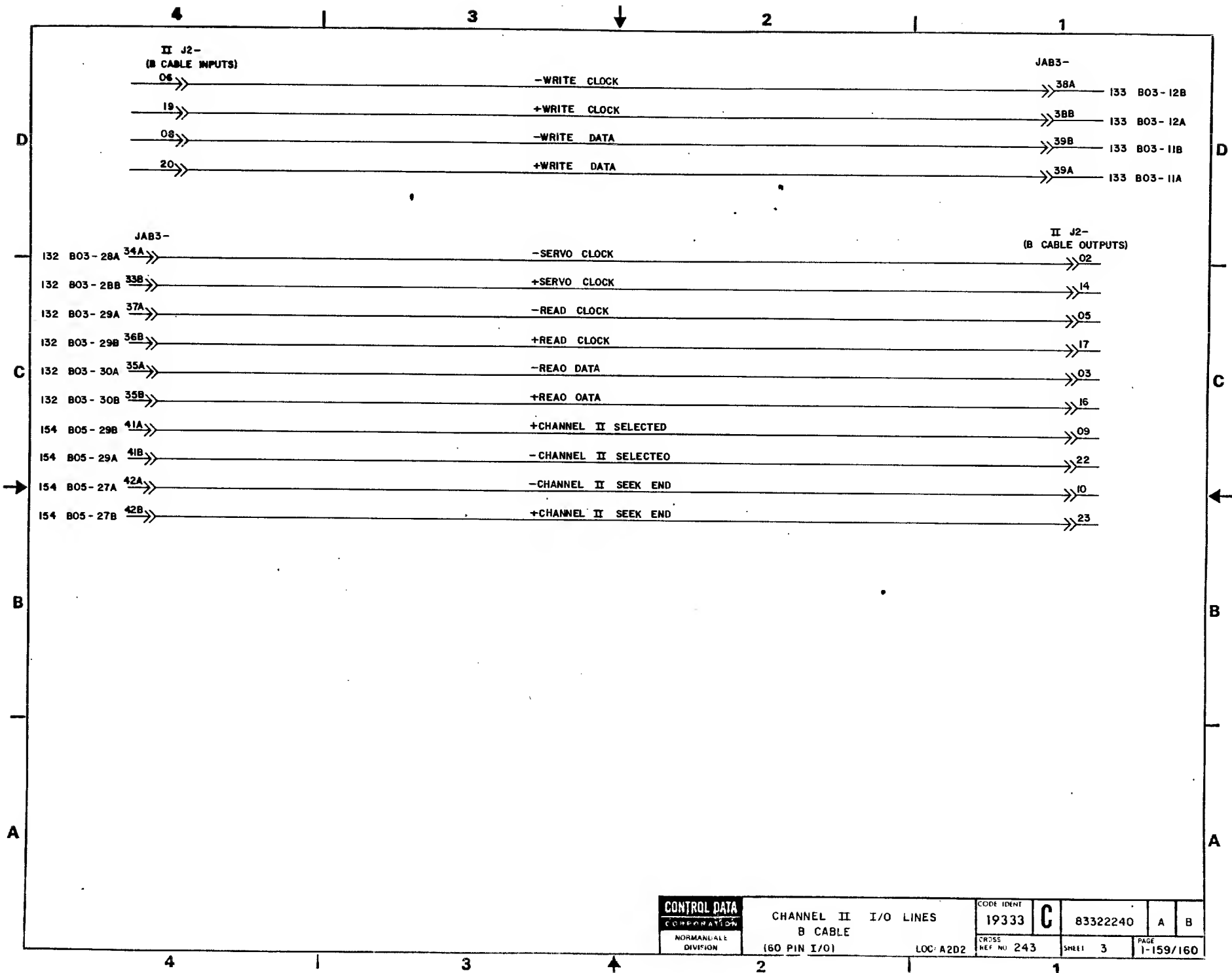
NOTE

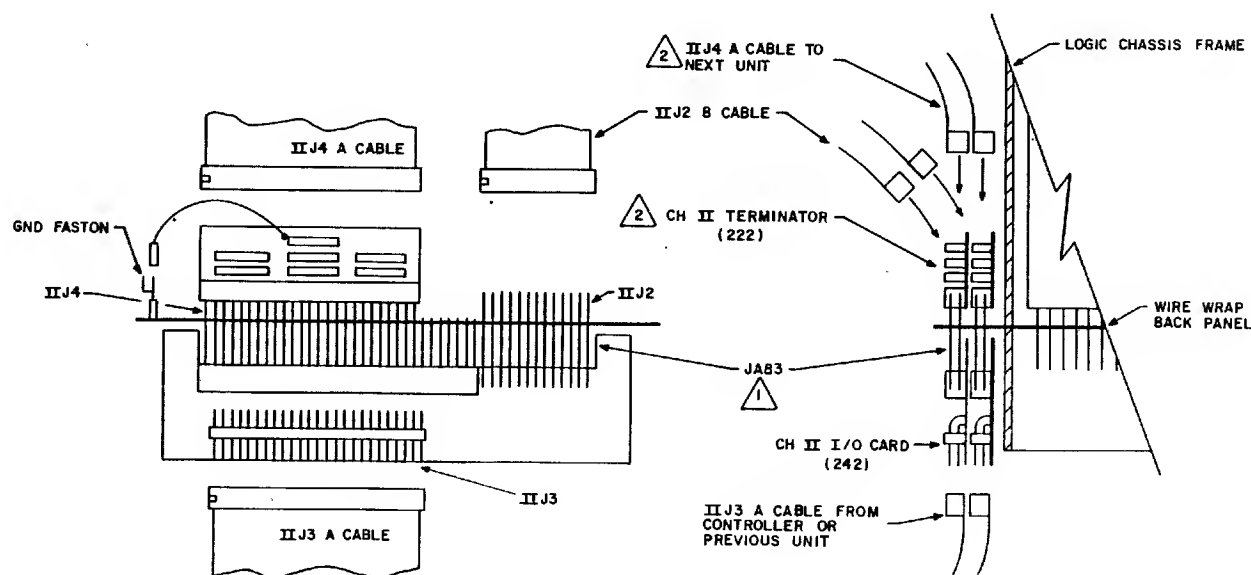
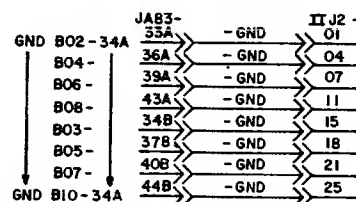
- 1 FEED THROUGH W/W PINS MAKE CONTACT TO BOTH, TERMINATOR AND I/O CARD
- 2 TERMINATOR IS REQUIRED IN PLACE OF IIJ4 A CABLE ON THE LAST UNIT IN A DAISY CHAIN CONFIGURATION AND ON ALL UNITS IN A STAR CONFIGURATION.

APPLICABLE TO 60 PIN I/O

APPLICABLE TO 60 PIN I/O											
DRAWN	G RABINE	9/27/74	CONTROL DATA ORIGINAL ON NORMANDALE DIVISION	CHANNEL II I/O DIAGRAMS TYPE BXYV	LOC A202	CODE IDENT	C	83322240	K	B	
CHECKED											
ENGINEER	- [Signature]	9/27/74									
APPROVED											
						CROSS REF #	241	SHEET	1 OF 3	PAGE	1-157



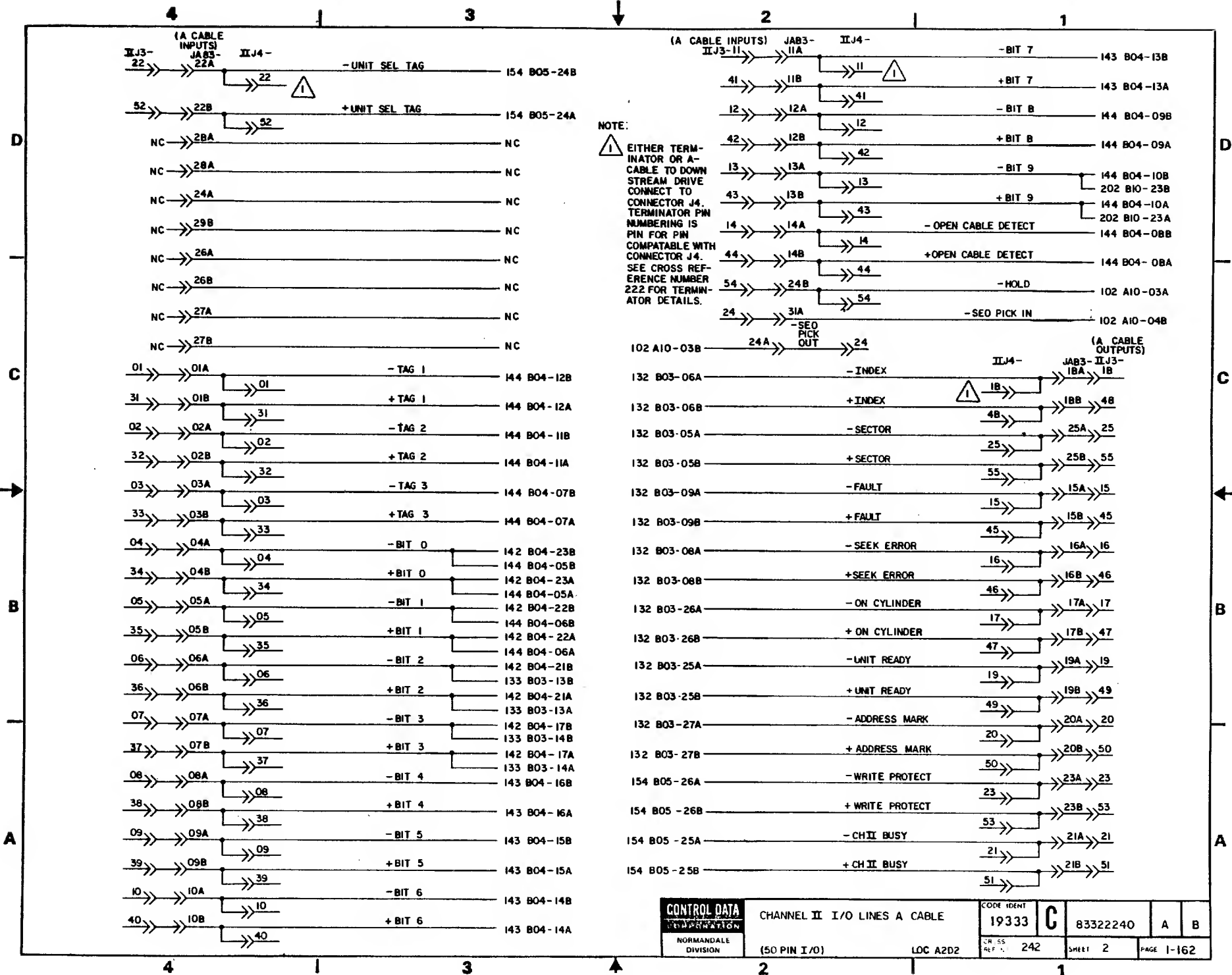


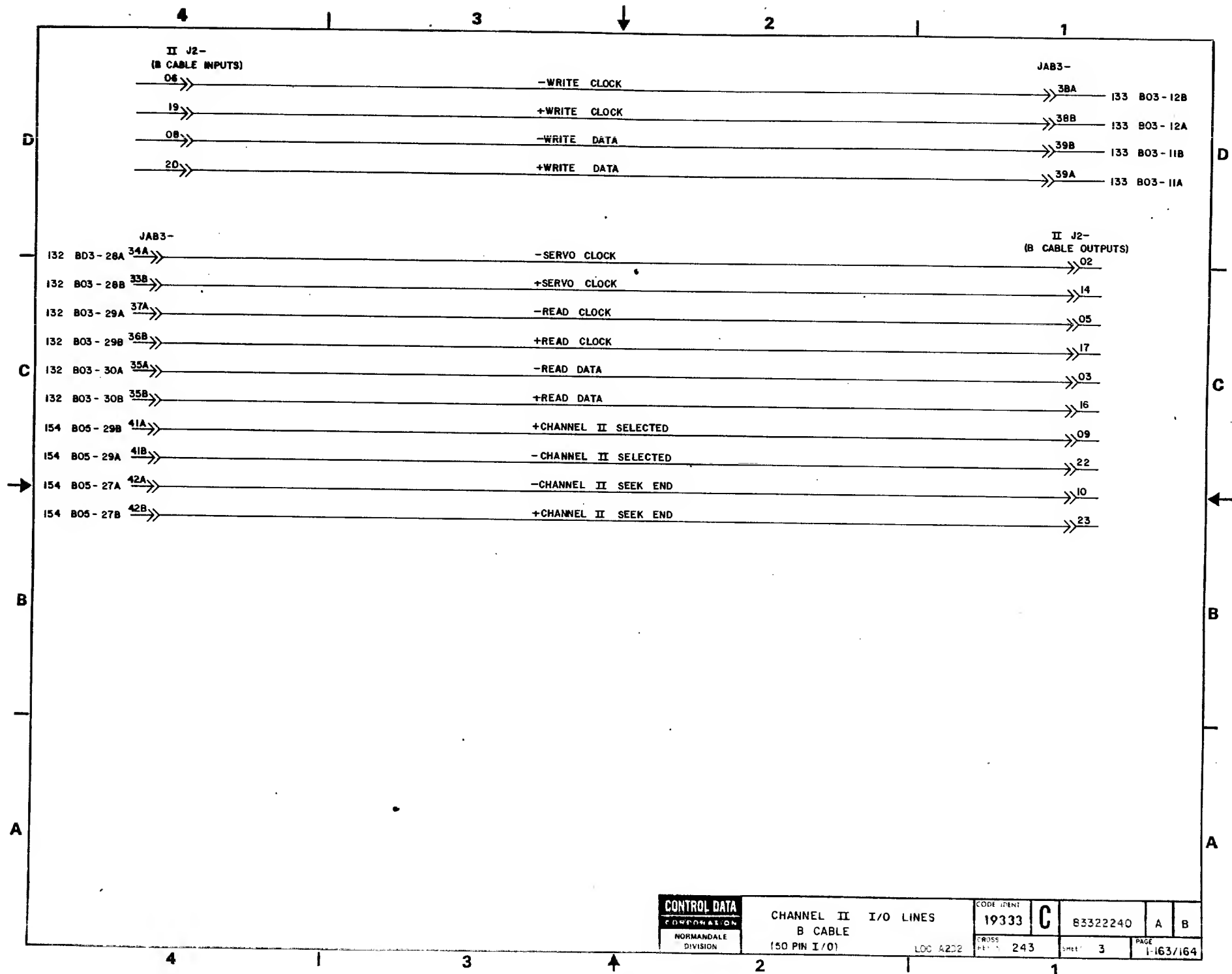
[illegible][illegible]

- 1 FEED THROUGH W/W PINS MAKE CONTACT TO BOTH, TERMINATOR AND I/O CARD
- 2 TERMINATOR IS REQUIRED IN PLACE OF IIJ4 A CABLE ON THE LAST UNIT IN A DAISY CHAIN CONFIGURATION AND ON ALL UNITS IN A STAR CONFIGURATION

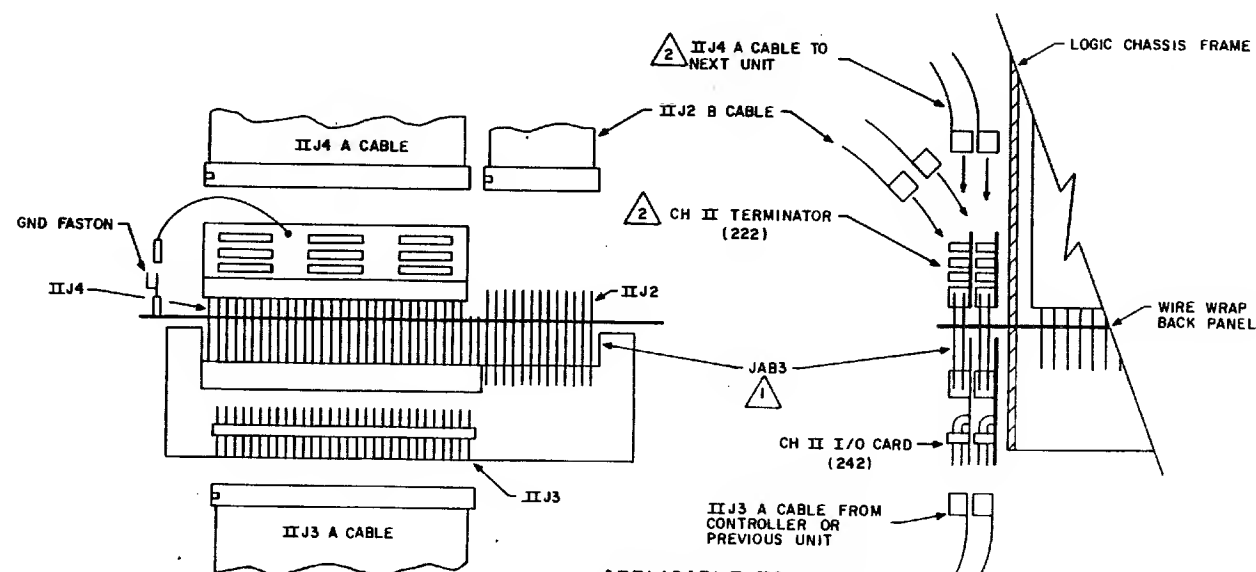
APPLICABLE TO 50 PIN I/O

DRAWN	3-27-72	CONTROL DATA CORPORATION NORMANDALE DIVISION	CHANNEL II I/O DIAGRAMS TYPE DXYV	LOC A2D2	CODE IDENT	19333	C	83322240	K	B
CHECKED					NO. SHEET	241	SHEET	1 OF 3	PAGE	1-161
ENGINEER										
APPROVED										





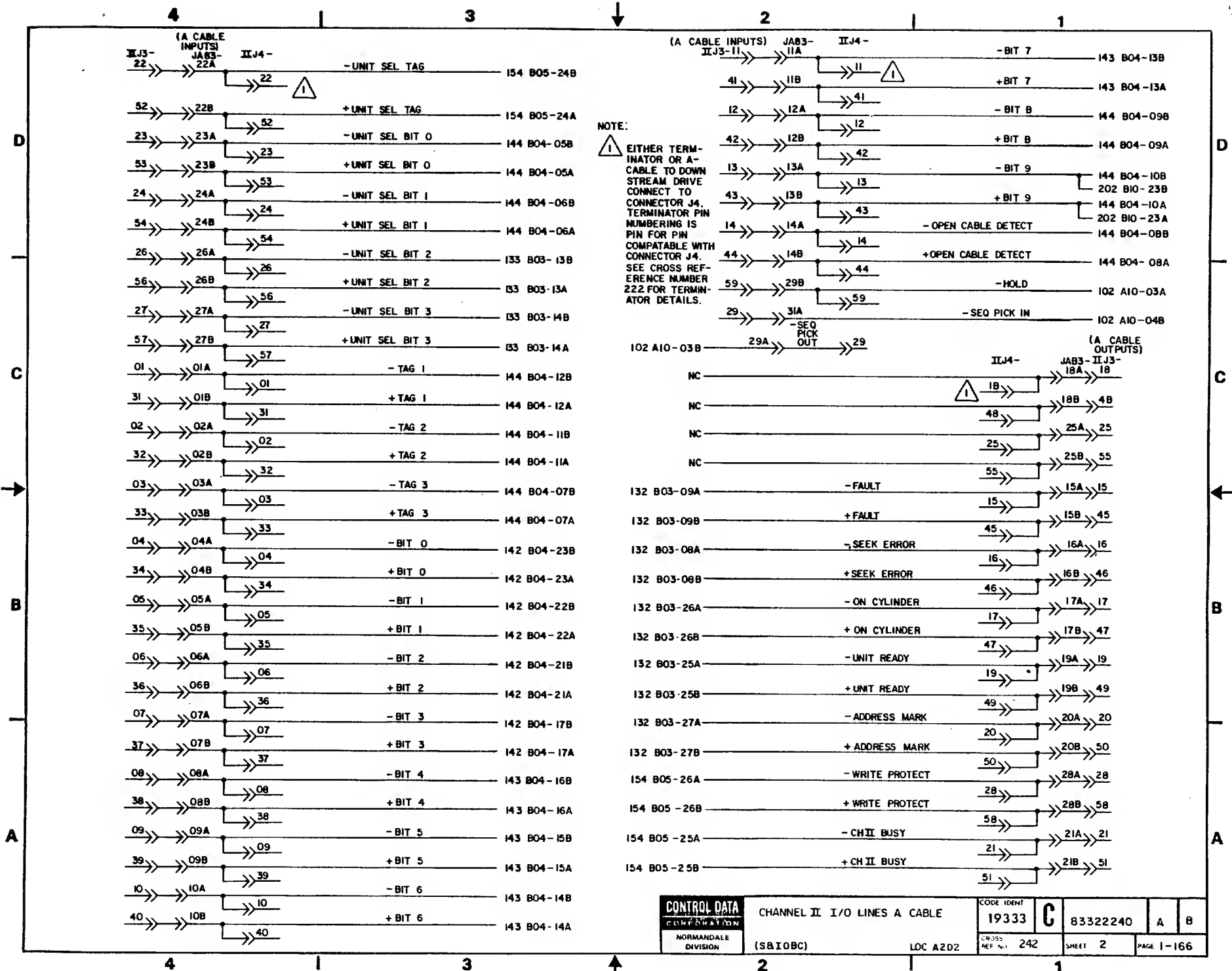
CONTROL DATA CORPORATION NORMANDALE DIVISION	CHANNEL II I/O LINES B CABLE (50 PIN I/O)		CODE IDENT 19333	C	83322240	A	B
	LOC 4232		CROSS REF 243	Sheet 3	PAGE 1-163/164		

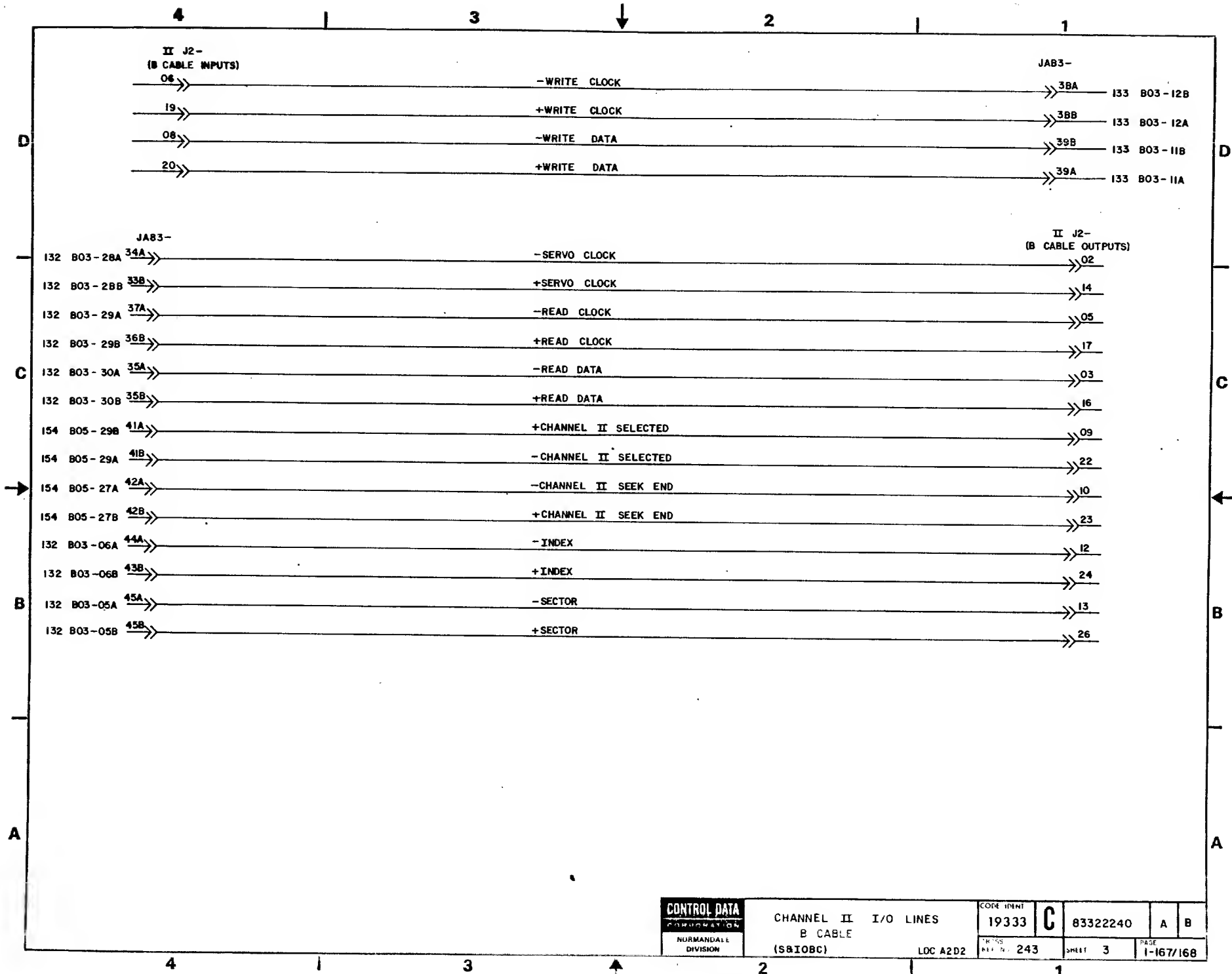
[illegible]

- 1 FEED THROUGH W/W PINS MAKE CONTACT TO BOTH, TERMINATOR AND I/O CARD
- 2 TERMINATOR IS REQUIRED IN PLACE OF IIJ4 A CABLE ON THE LAST UNIT IN A DAISY CHAIN CONFIGURATION AND ON ALL UNITS IN A STAR CONFIGURATION

APPLICABLE TO INDEX AND
SECTOR IN B CABLE

DRAWN	G. ROWE	9/27/76	CONTROL DATA CORPORATION NORMANDALE DIVISION	CHANNEL II I/O DIAGRAMS TYPE BXVY	CODE IDENT	19333	C	83322240	K	B
CHECKED										
ENGINEER										
APPROVED										
				LOC A202	REVIS REVISION NO.	241	SHEET	1 OF 3	PAGE	1-165

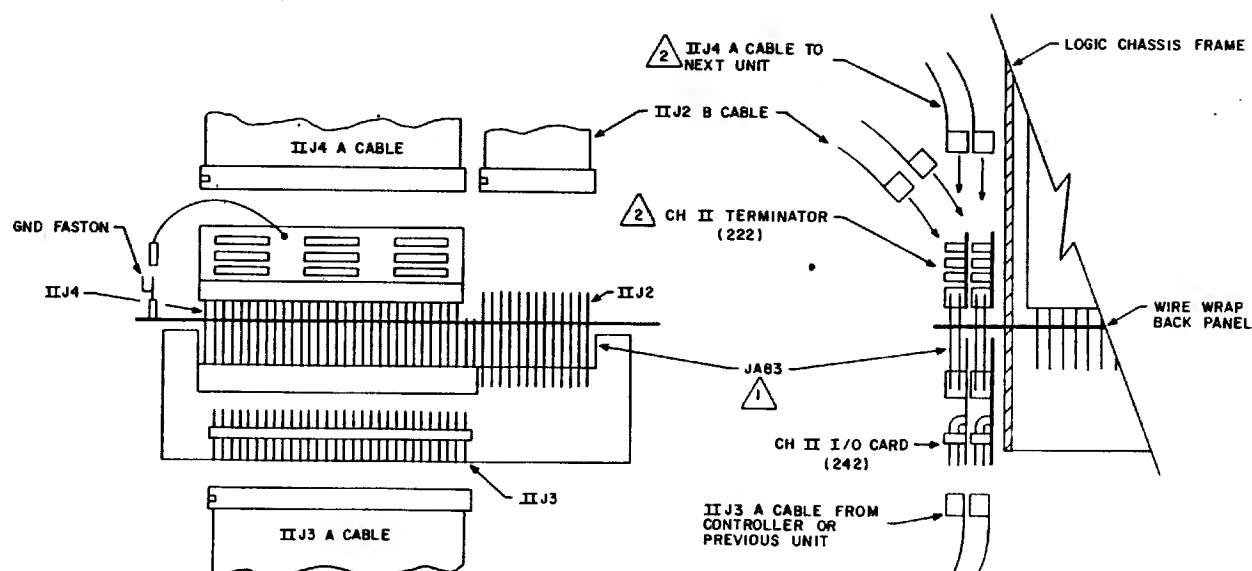
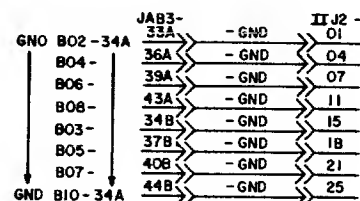




CONTROL DATA
CORPORATION
NORMANDALE
DIVISION

CHANNEL II I/O LINES
B CABLE
(S810BC)
LOC A2D2

CODE 19333	C	83322240	A	B
PRINTS 243	SHEET 3	PAGE 1-167/168		

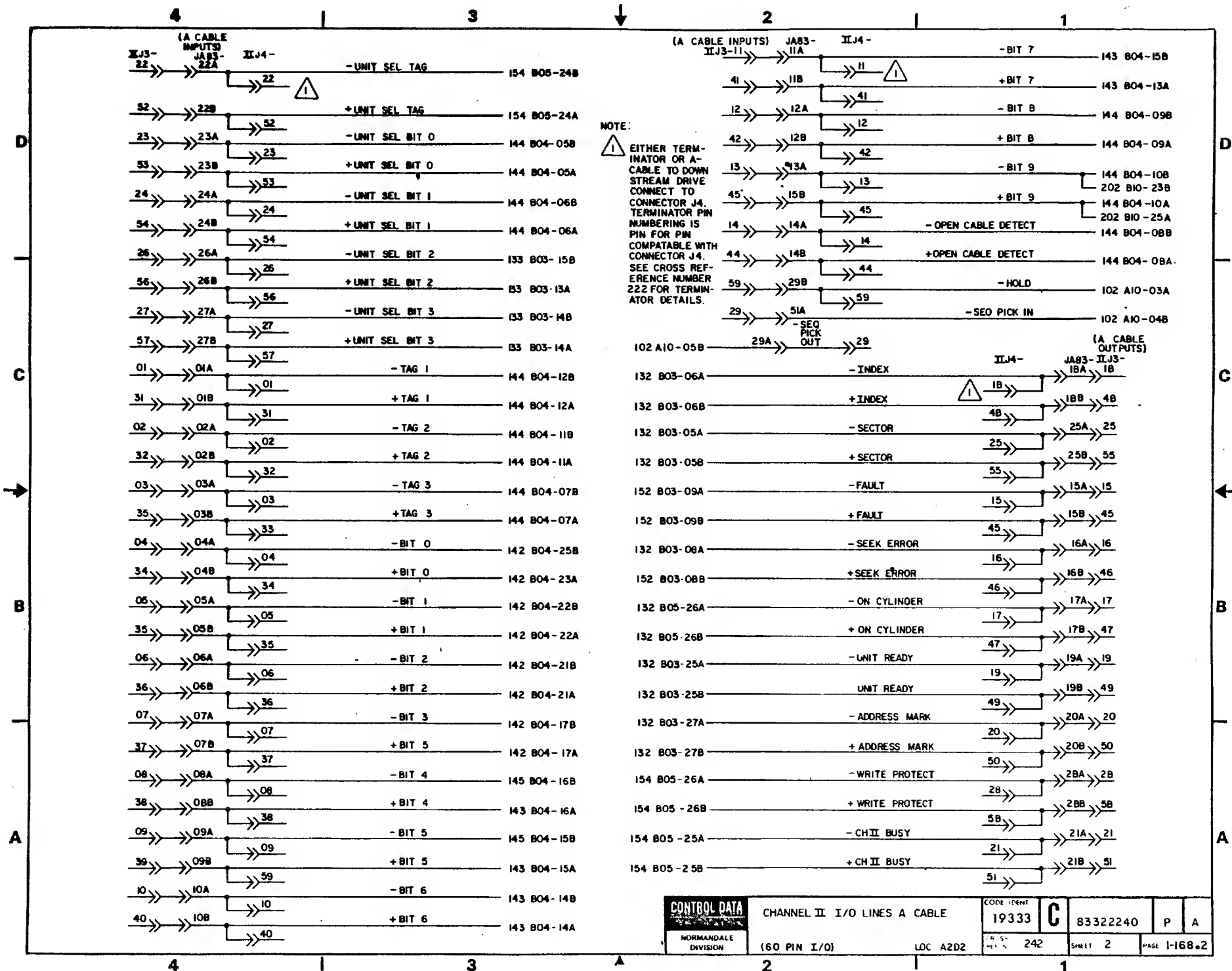
[illegible]

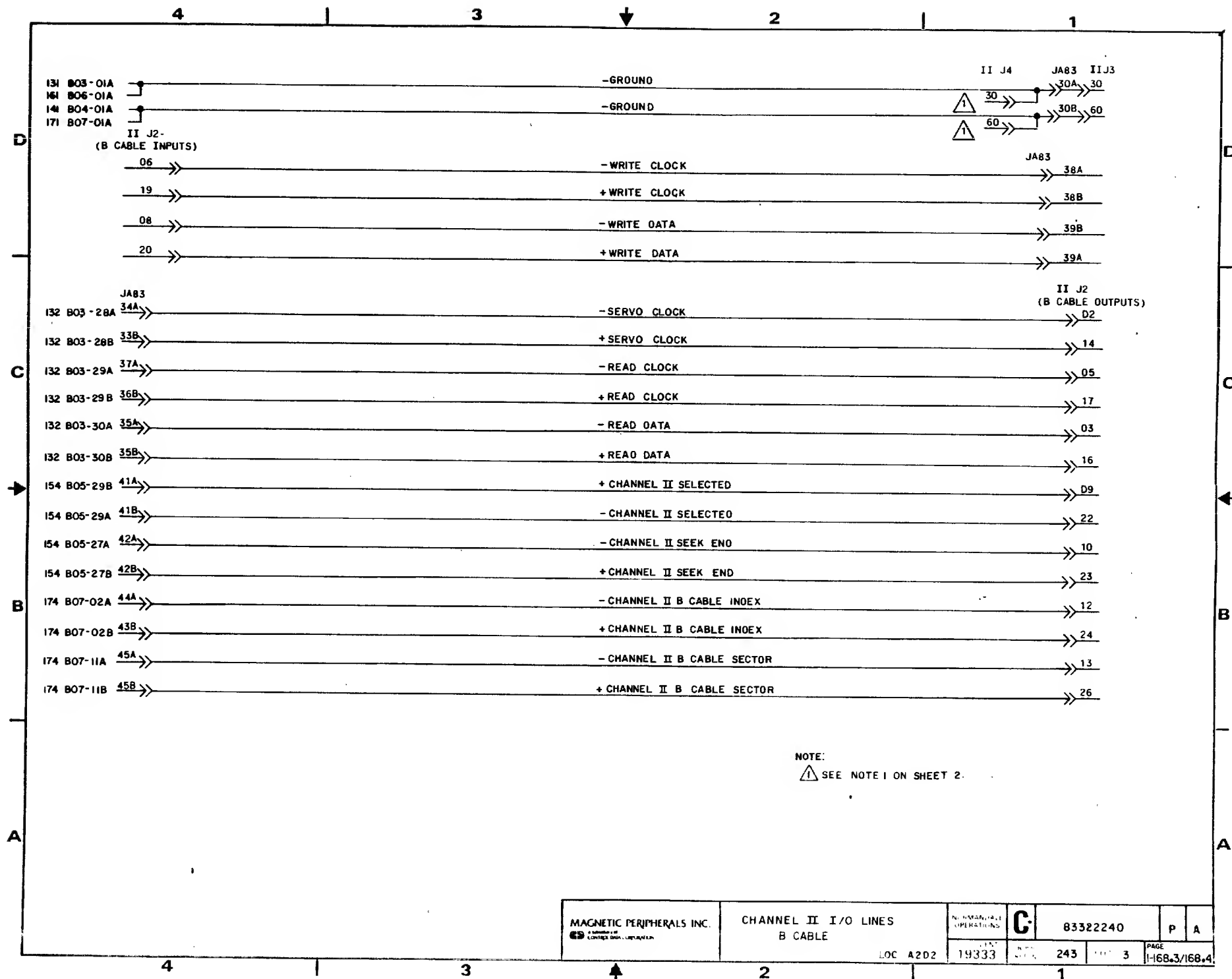
- 1 FEED THROUGH W/W PINS MAKE CONTACT TO BDTH.
TERMINATOR AND I/O CARD
- 2 TERMINATOR IS REQUIRED IN PLACE OF IIJ4 A CABLE
ON THE LAST UNIT IN A DAISY CHAIN CONFIGURATION
AND ON ALL UNITS IN A STAR CONFIGURATION

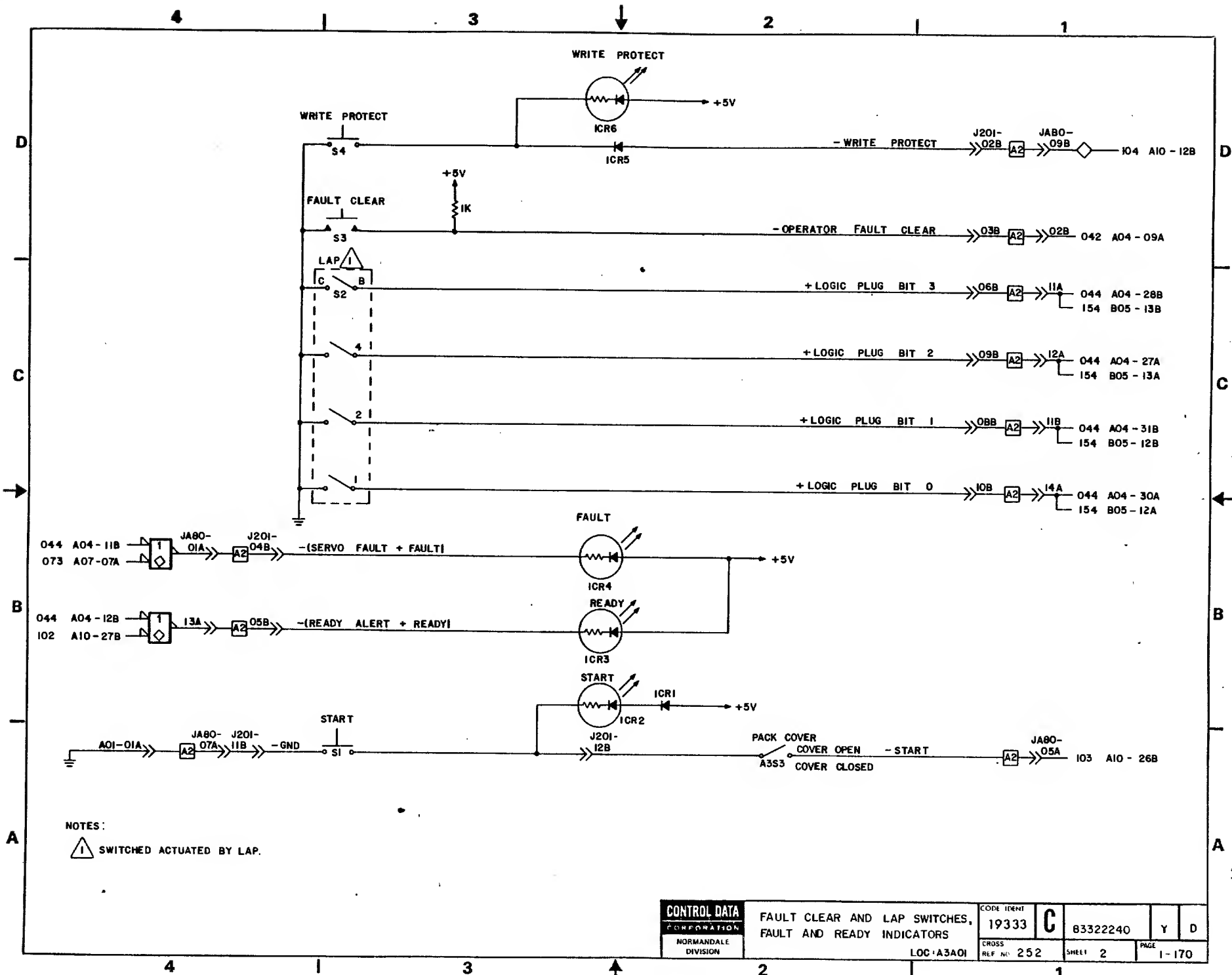
APPLICABLE TO BK5A7-V,W AND BK5C4-C,D ONLY

<table border="1"> <tr> <td>DRAWN</td> <td>7-11-64</td> <td></td> </tr> <tr> <td>CHECKED</td> <td></td> <td></td> </tr> <tr> <td>ENGINEER</td> <td><i>[Signature]</i></td> <td></td> </tr> <tr> <td>APPROVED</td> <td></td> <td></td> </tr> </table>	DRAWN	7-11-64		CHECKED			ENGINEER	<i>[Signature]</i>		APPROVED			<table border="1"> <tr> <td rowspan="2"> CONTROL DATA NONMAREDALE DIVISION </td><td> A AND B CABLE CHANNEL II I/O DIAGRAMS </td></tr> <tr> <td> TYPE BXYV LOC A2D2 </td></tr> </table>	CONTROL DATA NONMAREDALE DIVISION	A AND B CABLE CHANNEL II I/O DIAGRAMS	TYPE BXYV LOC A2D2	<table border="1"> <tr> <td>CODE IDENT</td><td>19333</td><td>C</td><td>83322240</td><td>P</td><td>A</td></tr> <tr> <td>CROSS REF NO</td><td>241</td><td>SHEET</td><td>1 OF 3</td><td>PAGE</td><td>1-168</td></tr> </table>	CODE IDENT	19333	C	83322240	P	A	CROSS REF NO	241	SHEET	1 OF 3	PAGE	1-168
DRAWN	7-11-64																												
CHECKED																													
ENGINEER	<i>[Signature]</i>																												
APPROVED																													
CONTROL DATA NONMAREDALE DIVISION	A AND B CABLE CHANNEL II I/O DIAGRAMS																												
	TYPE BXYV LOC A2D2																												
CODE IDENT	19333	C	83322240	P	A																								
CROSS REF NO	241	SHEET	1 OF 3	PAGE	1-168																								

REF 83214857



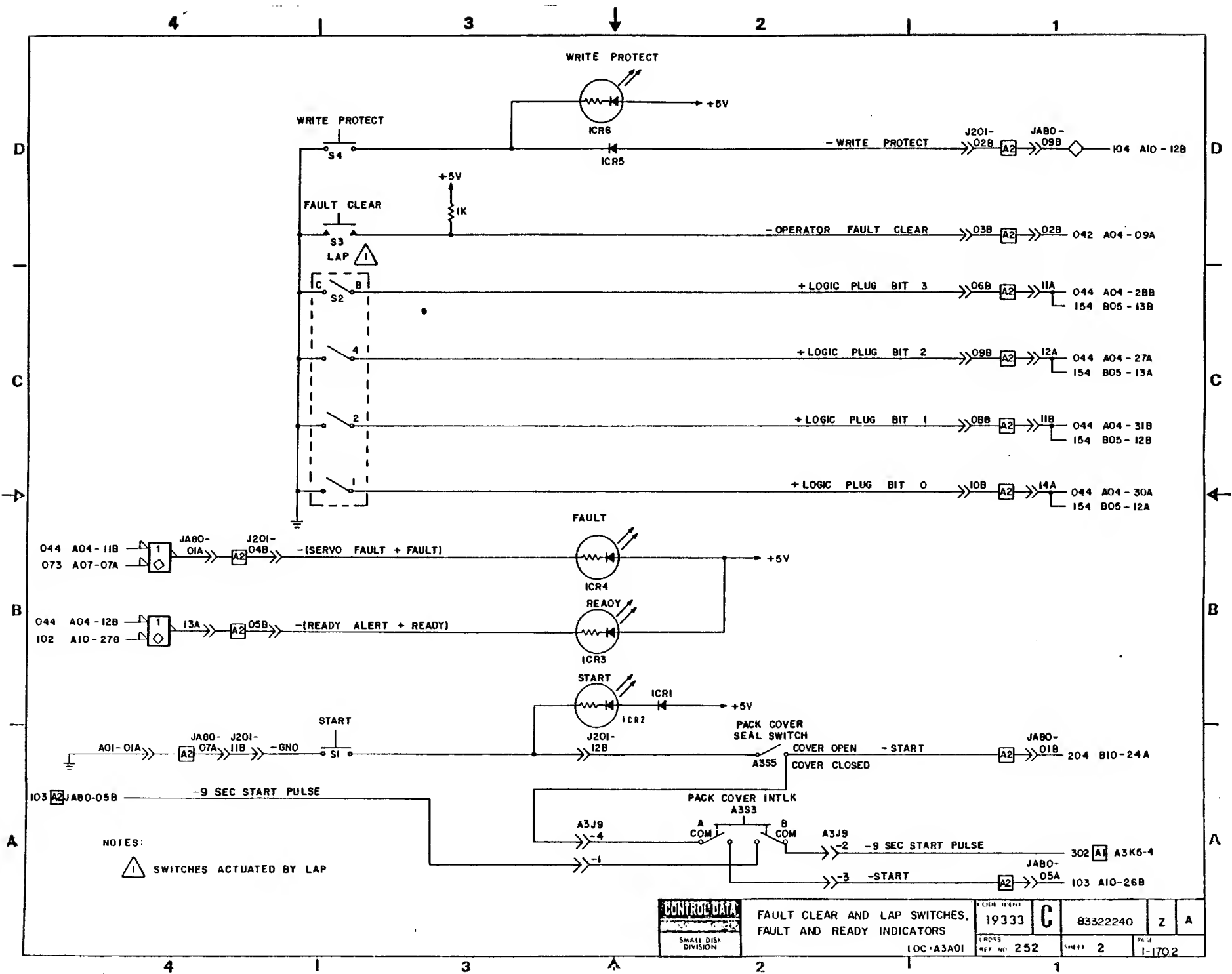




CONTROL DATA
CORPORATION
NORMANDALE
DIVISION

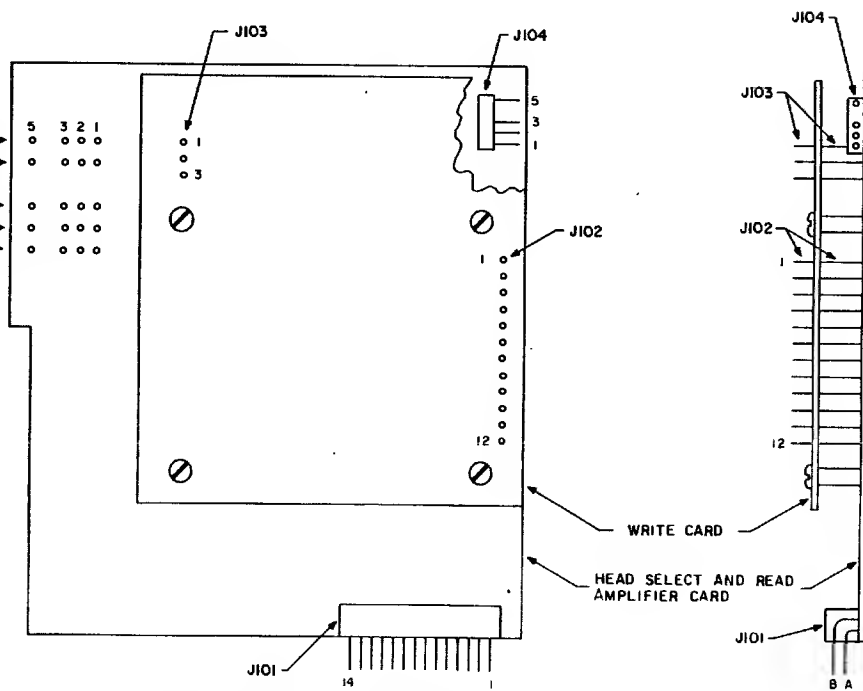
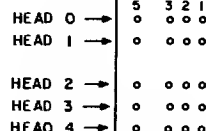
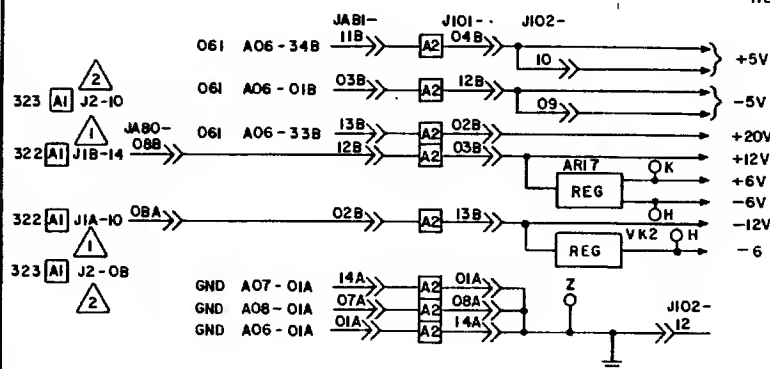
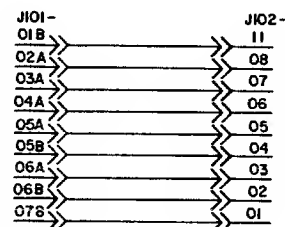
FAULT CLEAR AND LAP SWITCHES,
FAULT AND READY INDICATORS

CODE IDENT 19333	C	83322240	Y	D
CROSS REF NO 252	SHEET 2	PAGE 1-170		



REVISION STATUS OF SHEETS																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A	A	A	A																	
B	A	B																		
C	C	C																		
D	C	D																		
E	C	D																		

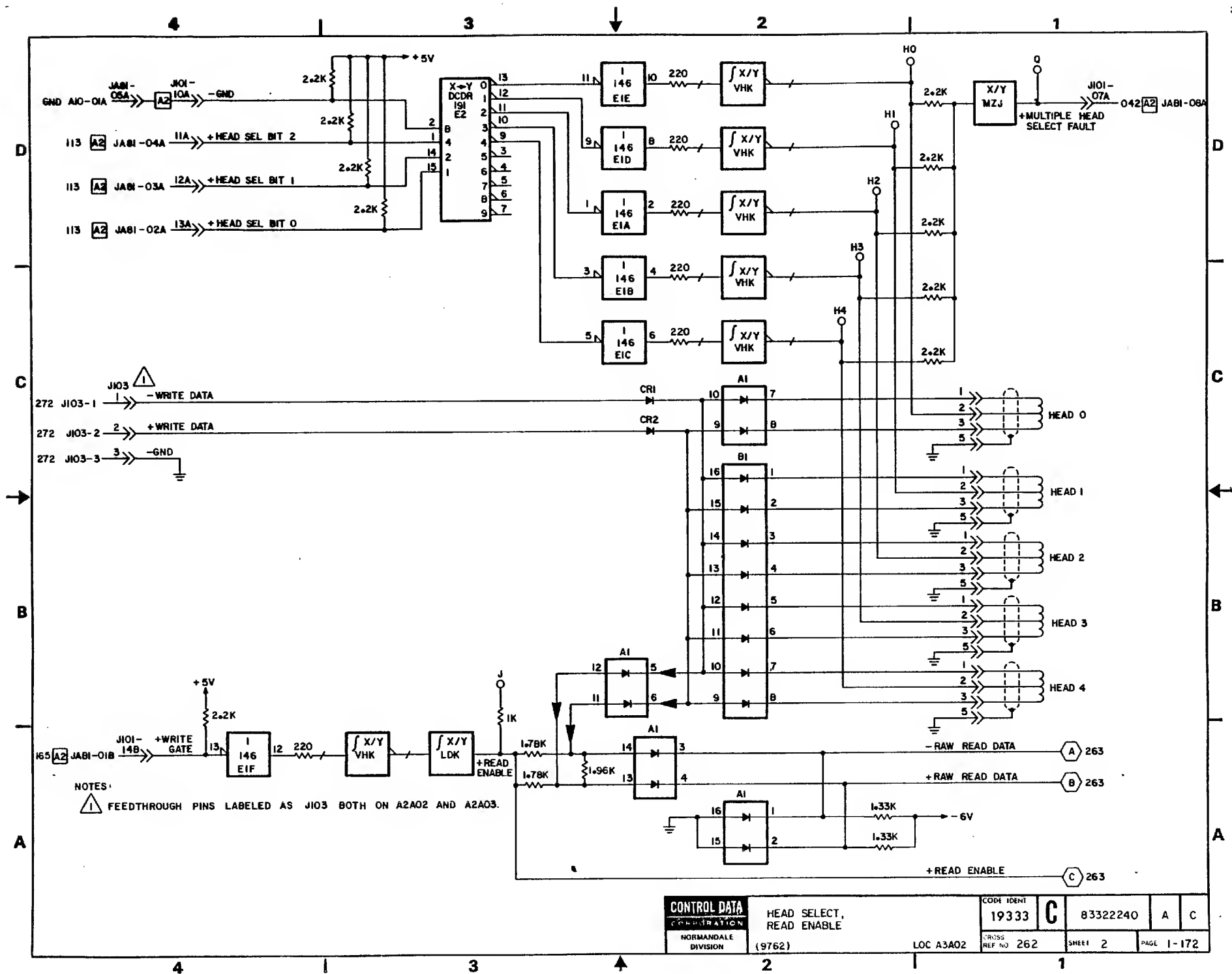
REVISIONS					
REV	ECO	DESCRIPTION	DRFT	DATE	CHK'D
A	PE 23000	RELEASED			
B	PE 48296	CORRECT DIAGRAMS	SB	11-2-76	
C	PE 48402	CORRECT DIAGRAMS	GR	12-20-76	
D	PE 48523	CORR DIAG	DM	7-22-77	
E	PE 55229	ADD HYBRID PWR SUP	MA	1-17-79	

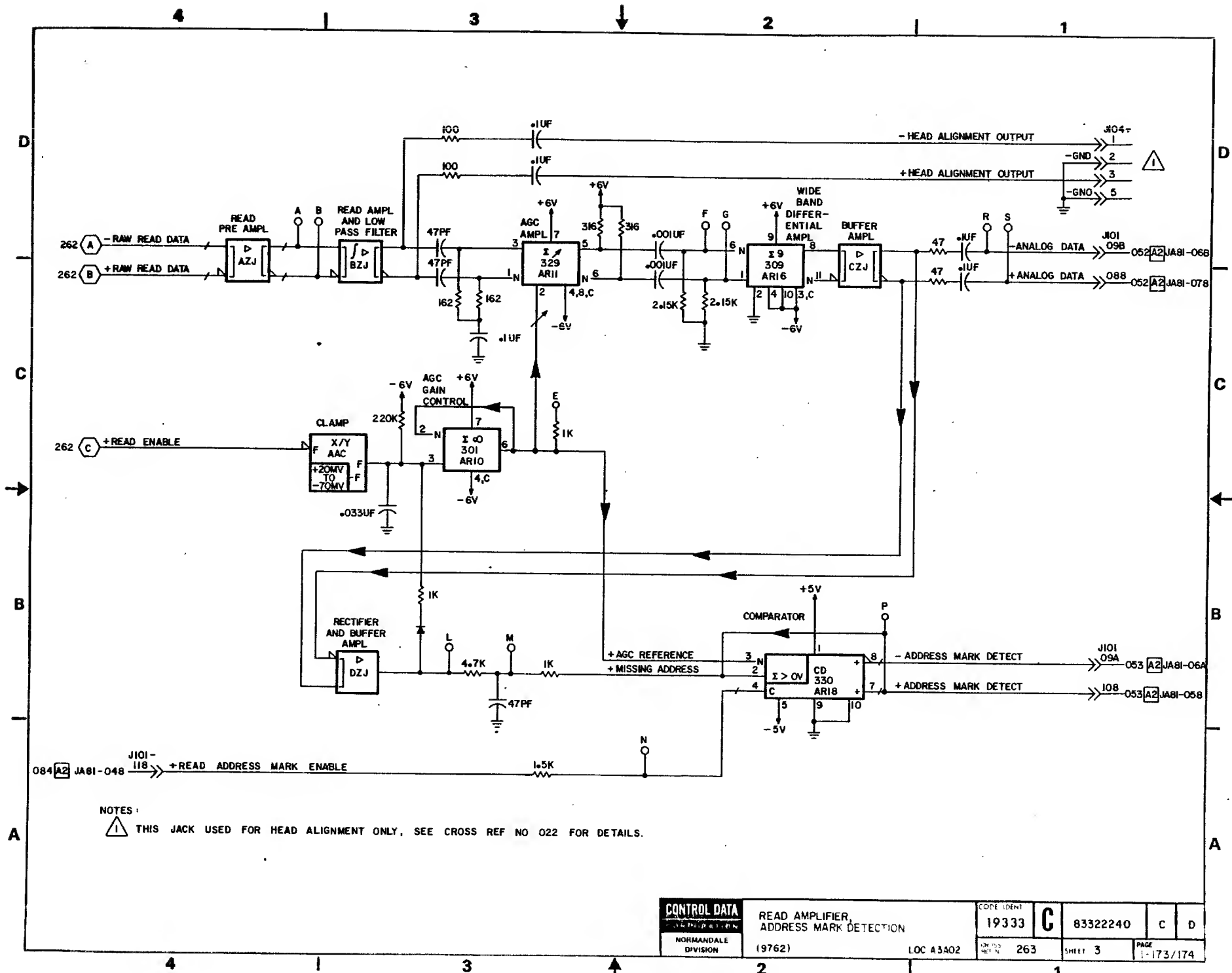


- NOTES.
- 1 USED FOR 3 CARD POWER SUPPLY
 - 2 USED FOR 2 CARD POWER SUPPLY

APPLICABLE TO BK5XX=9762. THIS SET USED FOR REV M & BELOW.

DRAWN		CONTROL DATA		HEAD SELECT AND READ AMPLIFIER DIAGRAMS		CODE IDENT		83322240		Y E	
CHECKED		ENGINEER		TYPE NZJN		19333	C	261	1 OF 3	1-171	
APPROVED		NORMANDELL DIVISION		LOC A3A02		CROSS REF		SHEET		PAGE	



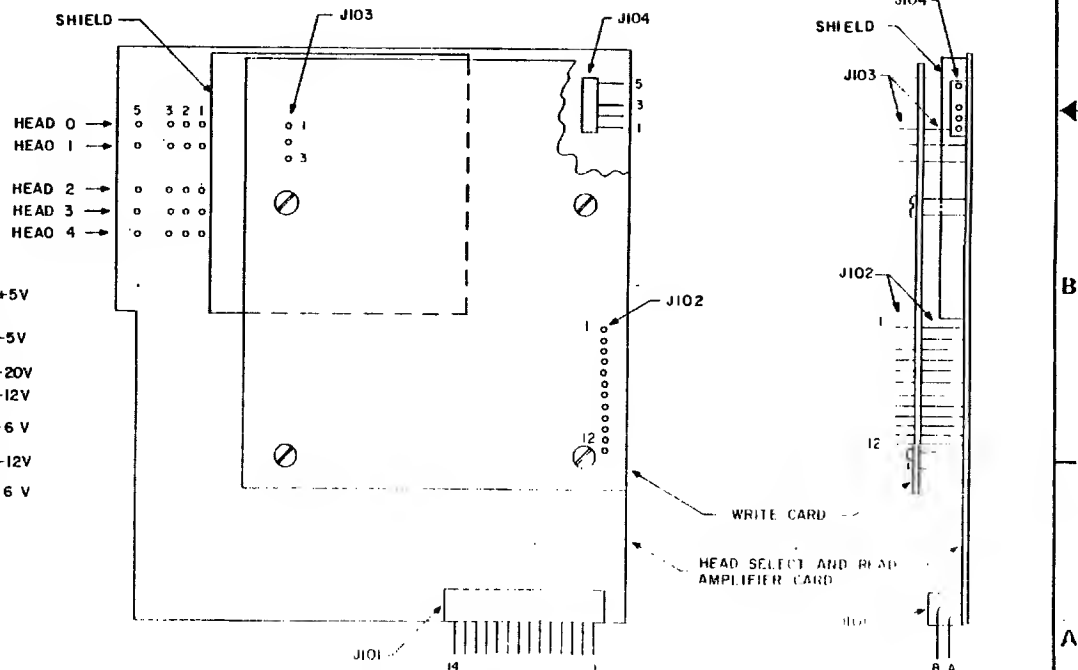
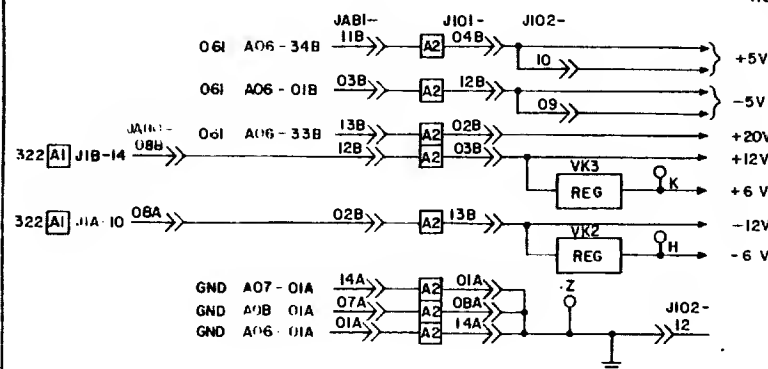
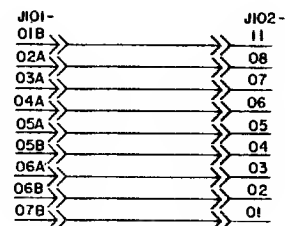


NOTES:

⚠ THIS JACK USED FOR HEAD ALIGNMENT ONLY, SEE CROSS REF NO 022 FOR DETAILS.

CONTROL DATA CORPORATION	READ AMPLIFIER, ADDRESS MARK DETECTION	CODE IDENT	C	83322240	C	D
		19333				
NORMANDALE DIVISION	(19762)	LOC 43A02	UNIT NO 263	SHEET 3	PAGE 1-173/174	

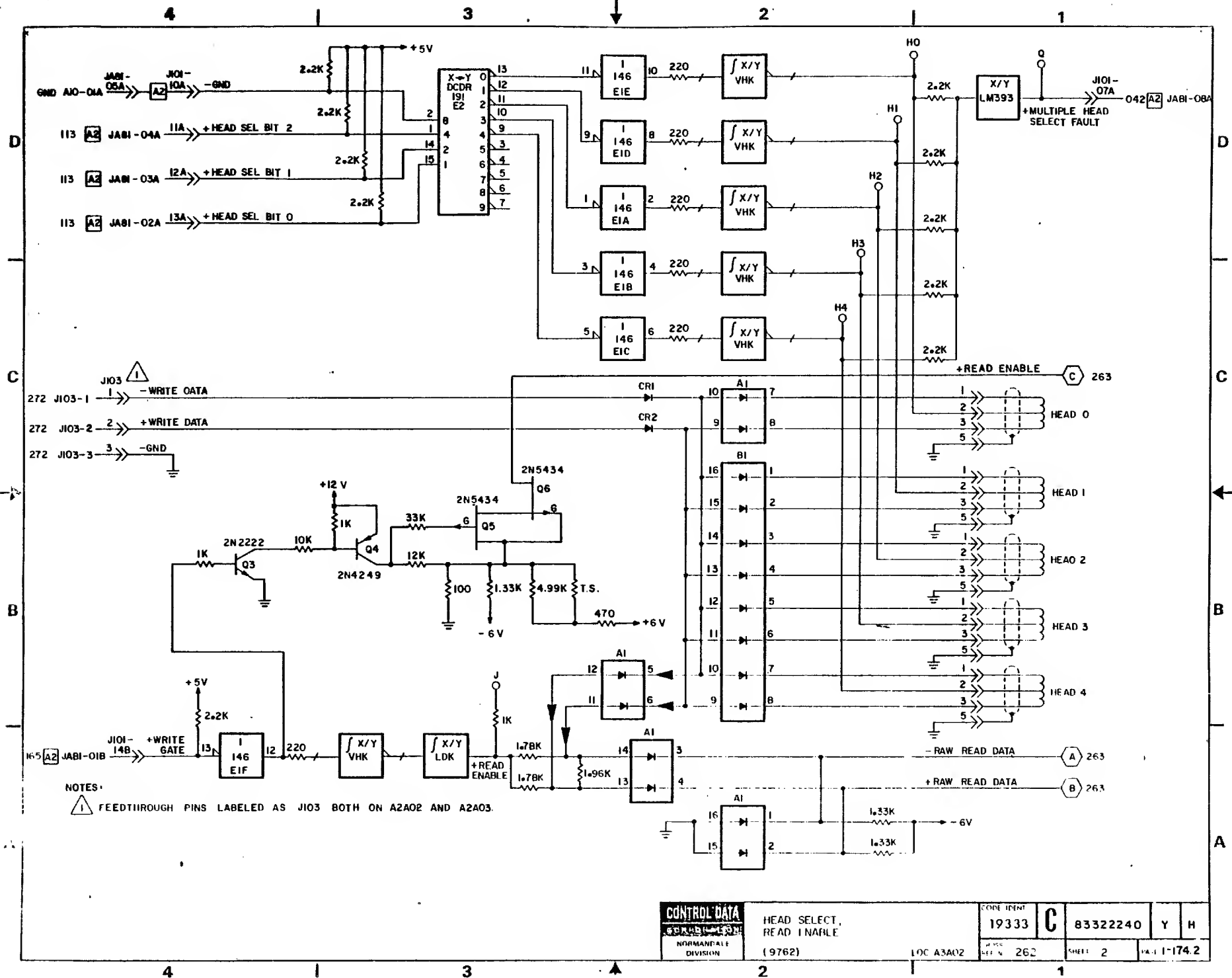
REVISIONS					
REV	ECO	DESCRIPTION	DRFT	DATE	CHK'D
A	PE25000	RELEASED			
H	FE48296	ERR CORR	MA	8-19-70	
C	PE48402	ERROR CORRECTIONS	YG	1-10-71	
D	PE48523	ERROR CORRECTION	SB	4-6-71	
E	DJ22000	TRANSFER FROM PE			
T	DJ00335	NZJN REDESIGN	SMS	4-28-82	
G	DJ00459	CHANGE LOGIC DIAGRAM - NZJN	J5	9-24-82	
H	DJ00488	CORRECT NZJN SCH	MA	3-21-83	
J	DJ00521	CHG NZJN COMP AY	JG	7-24-84	
K	DJ00785	RES CHG NZJN	MR	2-4-85	

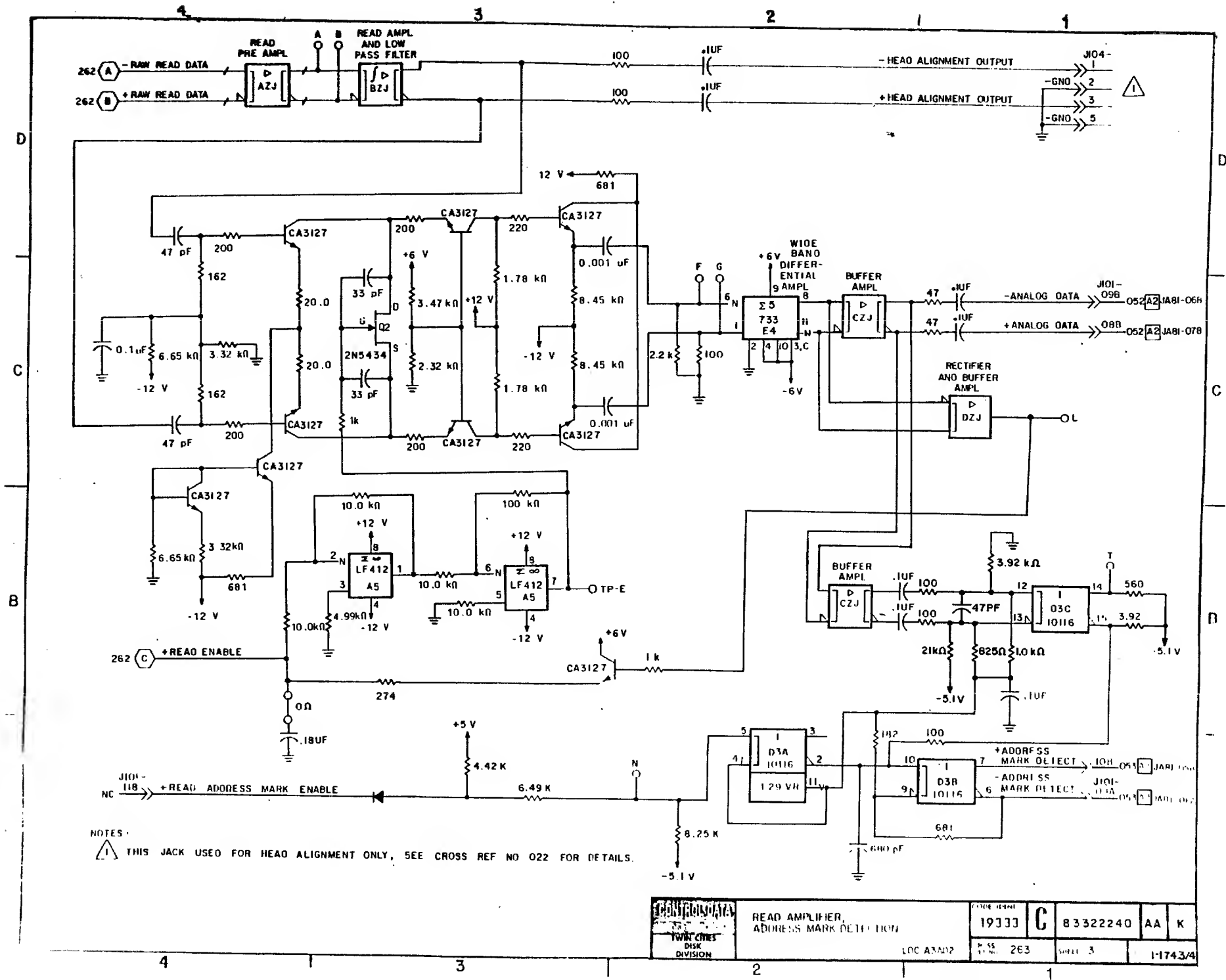


APPLICABLE TO BK5XX=9762, THIS SET USED FOR NZJN REV N & ABOVE.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

REF. B3214 826



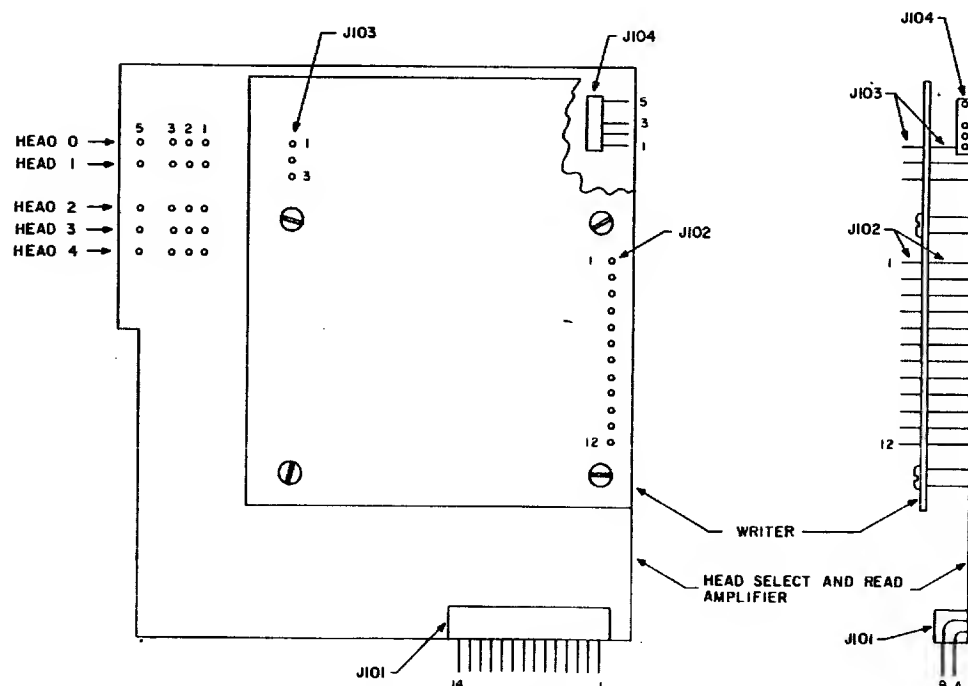
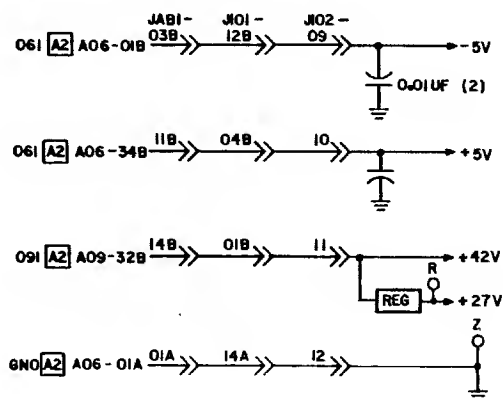


REVISION STATUS OF SHEETS																			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A	A	A																	
B	B	B																	
C	C	C																	
D	C	D																	
E	E	D																	

UNUSED LOGIC ELEMENTS

TYPE	LOCATION	OUTPUT PIN(S)
200	03	12
140	C4	3

REVISIONS					
REV	ECO	DESCRIPTION	DWFT	DATE	CHK'D
A	PE23000	RELEASED	MLA	8-20-76	
B	PE48402	CORR DIAG			
C	PE48523	CORR DIAG	DM	7-22-77	
D	PE48675	ERR CORR	DM	11-23-78	
E	PE55933	CORRECT DIAGRAMS	MA	10-9-78	



APPLICABLE TO BK5XX=9762

DRAWN	19333	CONTROL DATA	WRITER DIAGRAMS	CODE IDENT	C	83322240	S	E
CHECKED				19333				
ENGINEER								
APPROVED								

LOC A3A03

271

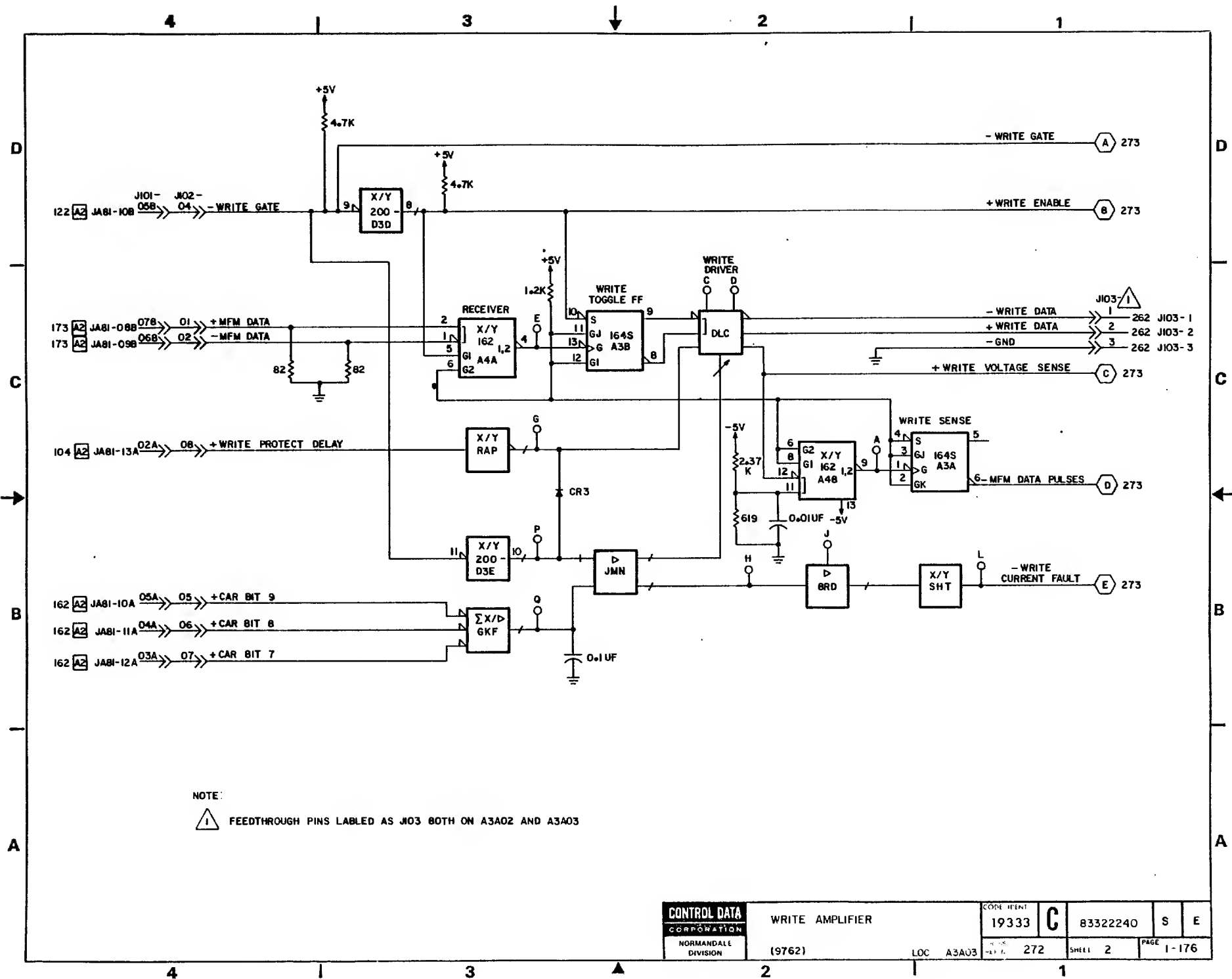
SHEET

1 OF 3

PAGE

1-175

REF 83214627



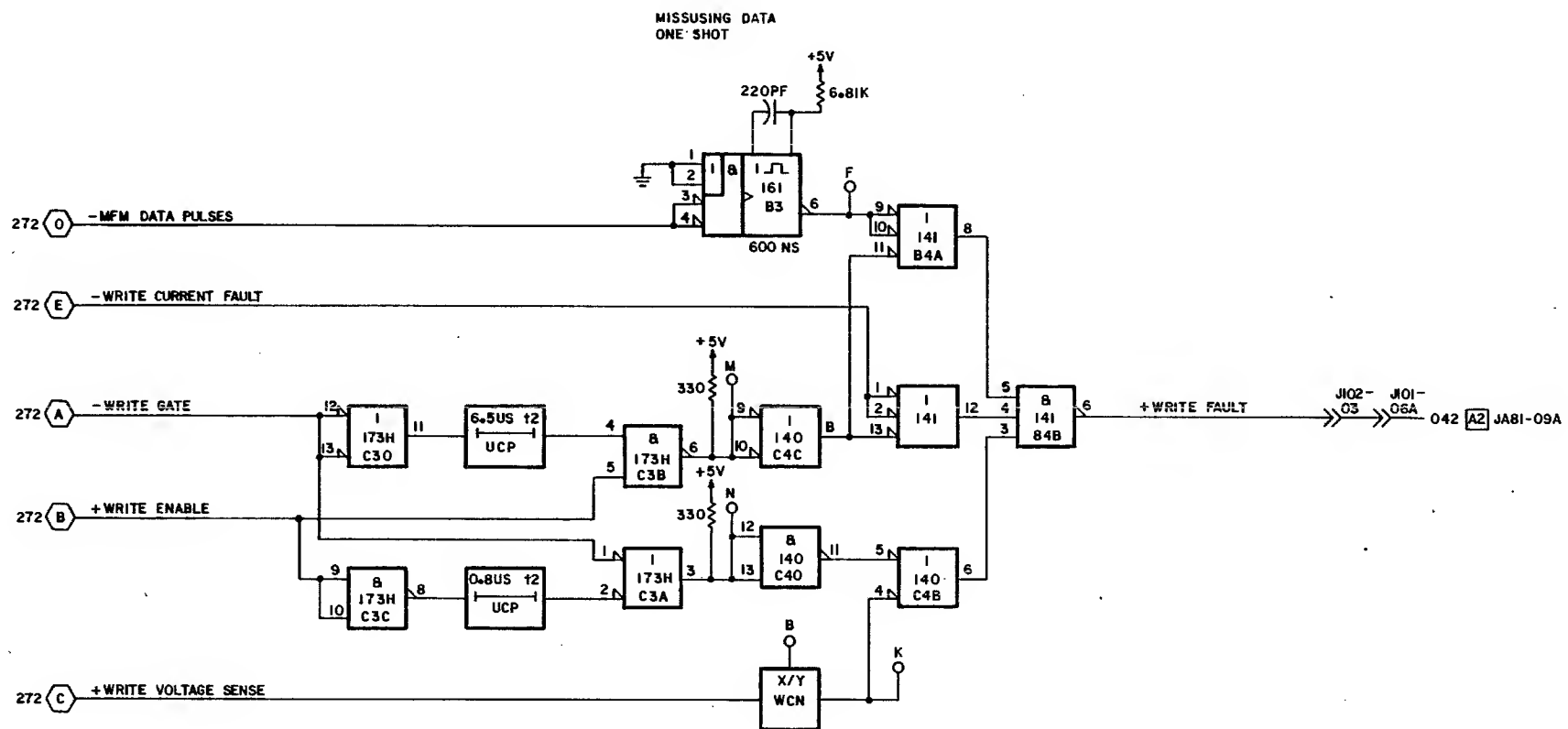
CONTROL DATA
 CORPORATION
 NORMANDALE
 DIVISION

WRITE AMPLIFIER

(9762)

LOC A3A03

CODE IDENT	19333	C	83322240	S	E
REV. 1	272	SHEET	2	PAGE	1-176



CONTROL DATA
CORPORATION
NORMANDALE
DIVISION

WRITE FAULT DETECTION

(9762)

LOC A3A03

CORE IDENT
19333

83322240

S D

273


SHEET 3

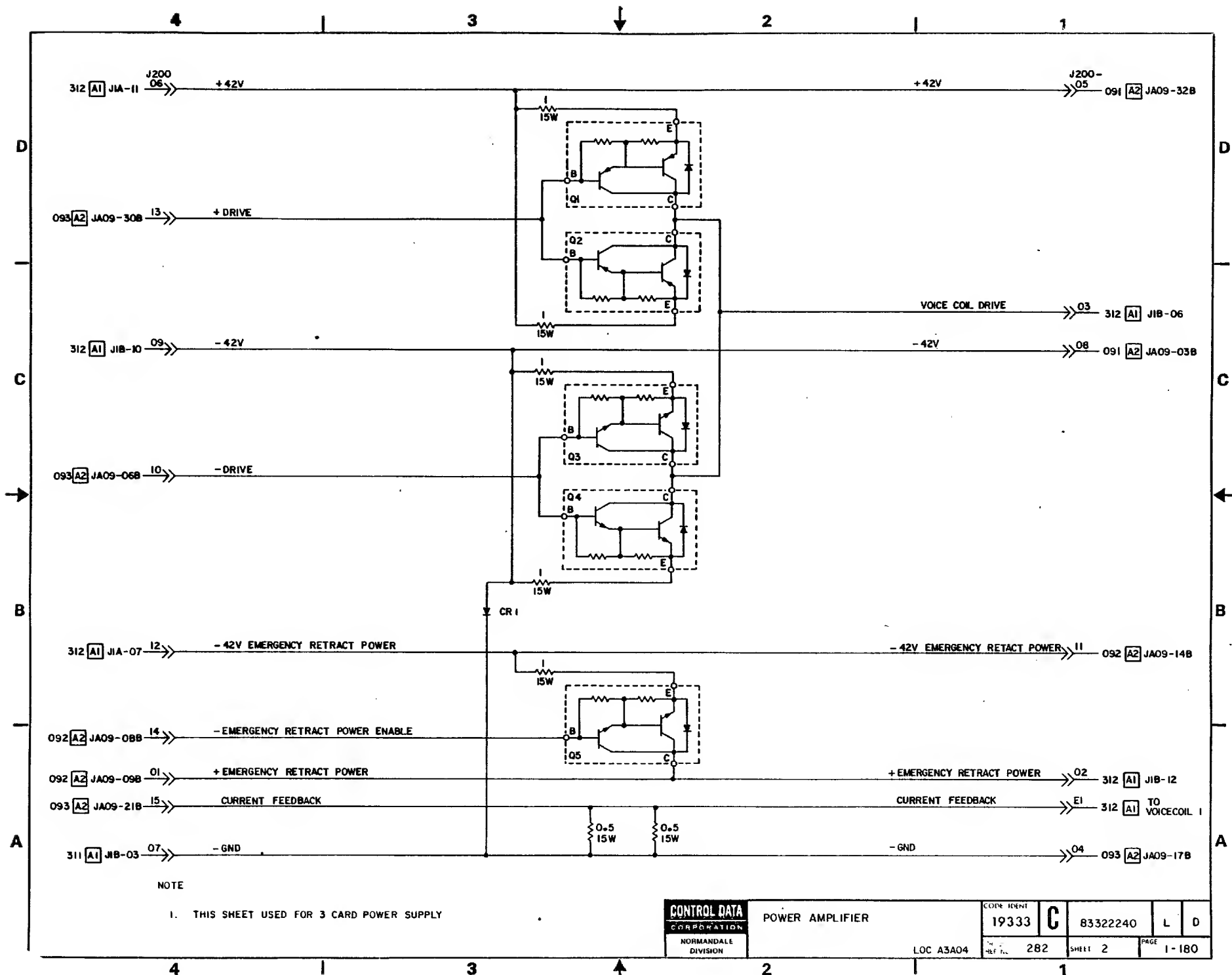
PAGE 1-177/178

[illegible][illegible]

1

AVTN - USED ON BK5A1K, BK5A7M, BK5A9J, BK5A9U, BK5C1E/F

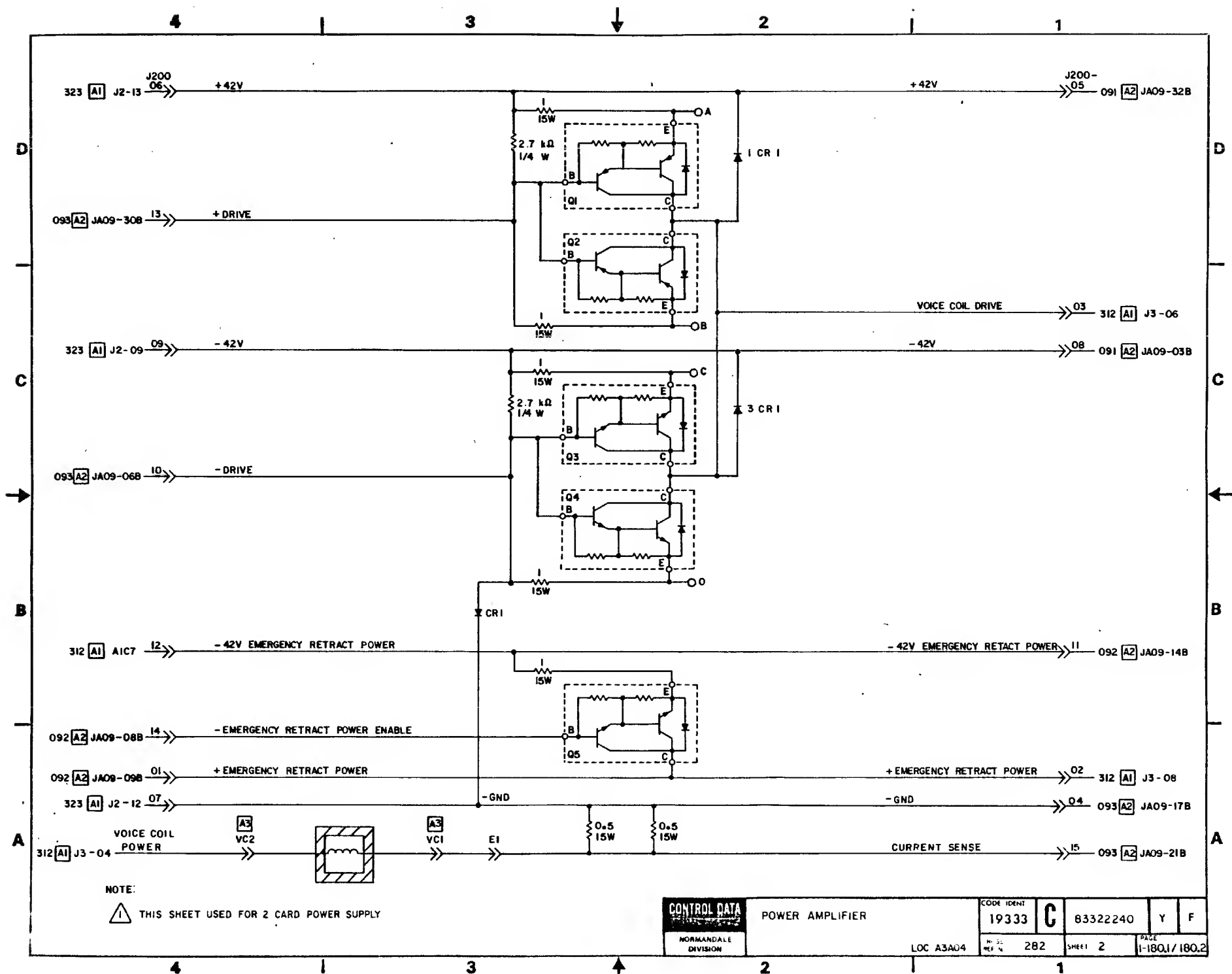
DRAWN		CONTROL DATA CORPORATION NORMANDALE DIVISION TYPE 5VTN 	CODE IDENT	19333	C	83322240	Y	F
CHECKED			POWER AMPLIFIER DIAGRAMS					
ENGINEER	<i>[Signature]</i>		LOC A3A04	281	1 OF 2	1-179		
APPROVED								

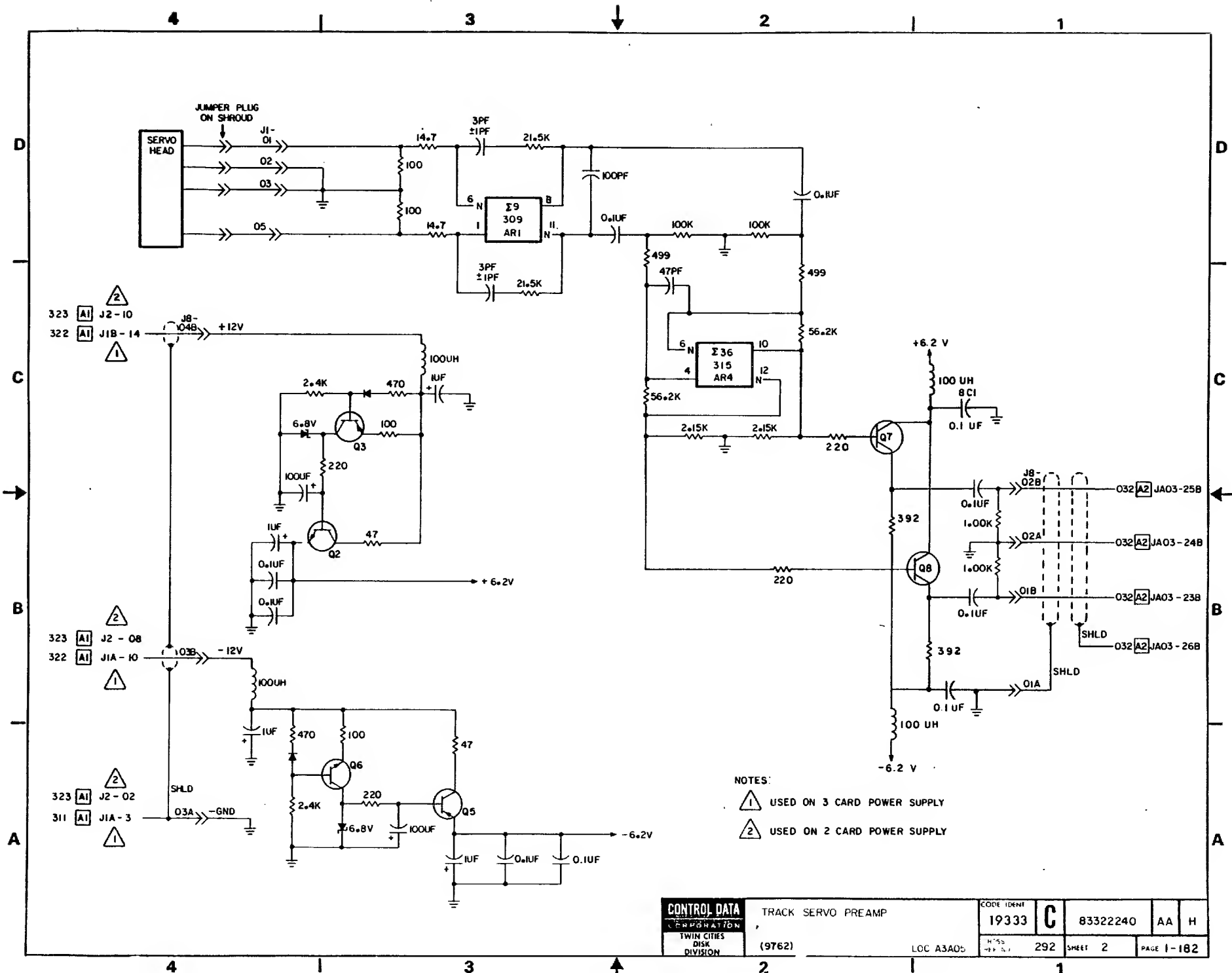


CONTROL DATA
CORPORATION
NORMANDALE
DIVISION

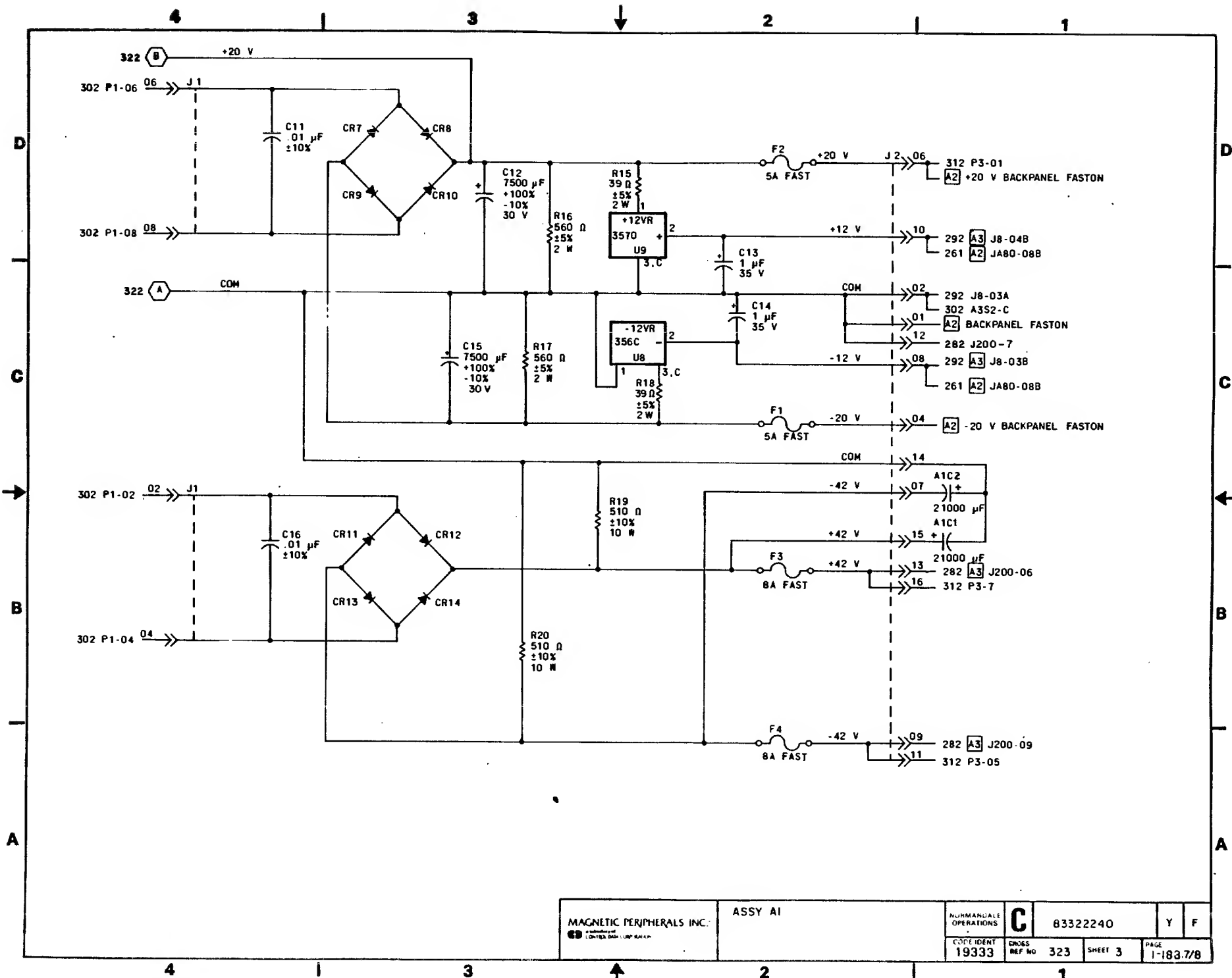
POWER AMPLIFIER

CODE IDENT 19333	C	83322240	L	D
LOC A3A04	282	SHEET 2	PAGE 1-180	



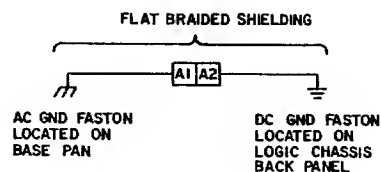


CONTROL DATA CORPORATION		TRACK SERVO PREAMP		CODE IDENT		19333 C		83322240		AA H	
TWIN CITIES DISK DIVISION		(9762)		LOC A3A05		292		SHEET 2		PAGE 1-182	



REVISION STATUS OF SHEETS																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A	A																			
B	B																			
C	C																			
D	D																			
E	E	E																		
F	F	F																		
G	G	G																		
H	H	H																		
J	J	J																		
K	K	K																		
L	K	L																		
M	K	L																		
N	K	N																		
P																				

REVISIONS					
REV.	ECO	DESCRIPTION	DRFT.	DATE	CHK'D
A	PE23000	RELEASED	MLA	8-20-76	
B	PE48296	CORRECT DIAGRAMS	SB	11-2-76	
C	PE48402	CORR. DIAG			
D	PE48477	INC VOLTAGE RATING OF MOTOR CONTROL TRIACS	DM	7-22-77	
E	PE55229	ADD HYBRID PWR SUP	MA	7-17-79	
F	PE55844B	ADD REMOVABLE LINE FILTER AND POWER CORD	CB	2-6-80	
G	PE48610	ERROR CORRECTION	MF	7-16-80	
H	PE55493	ERROR CORRECTION	MF	7-16-80	
J	PE55776	ERROR CORRECTION	MF	7-16-80	
K	PE55982	REMOVABLE PWR CORD	MF	7-16-80	
L	PE24500	MADE SCHE CHG	MJ	1-11-82	dy
M	PE56900	CHG NOT INSTALLED, DIA NOT AFFECTED	MJ	1-11-82	dy
N	DJ00030	ADD GROUNDING STUD	MJ	1-11-82	dy
P	DJ00243	CORR. DIA.	MJ	5-27-85	



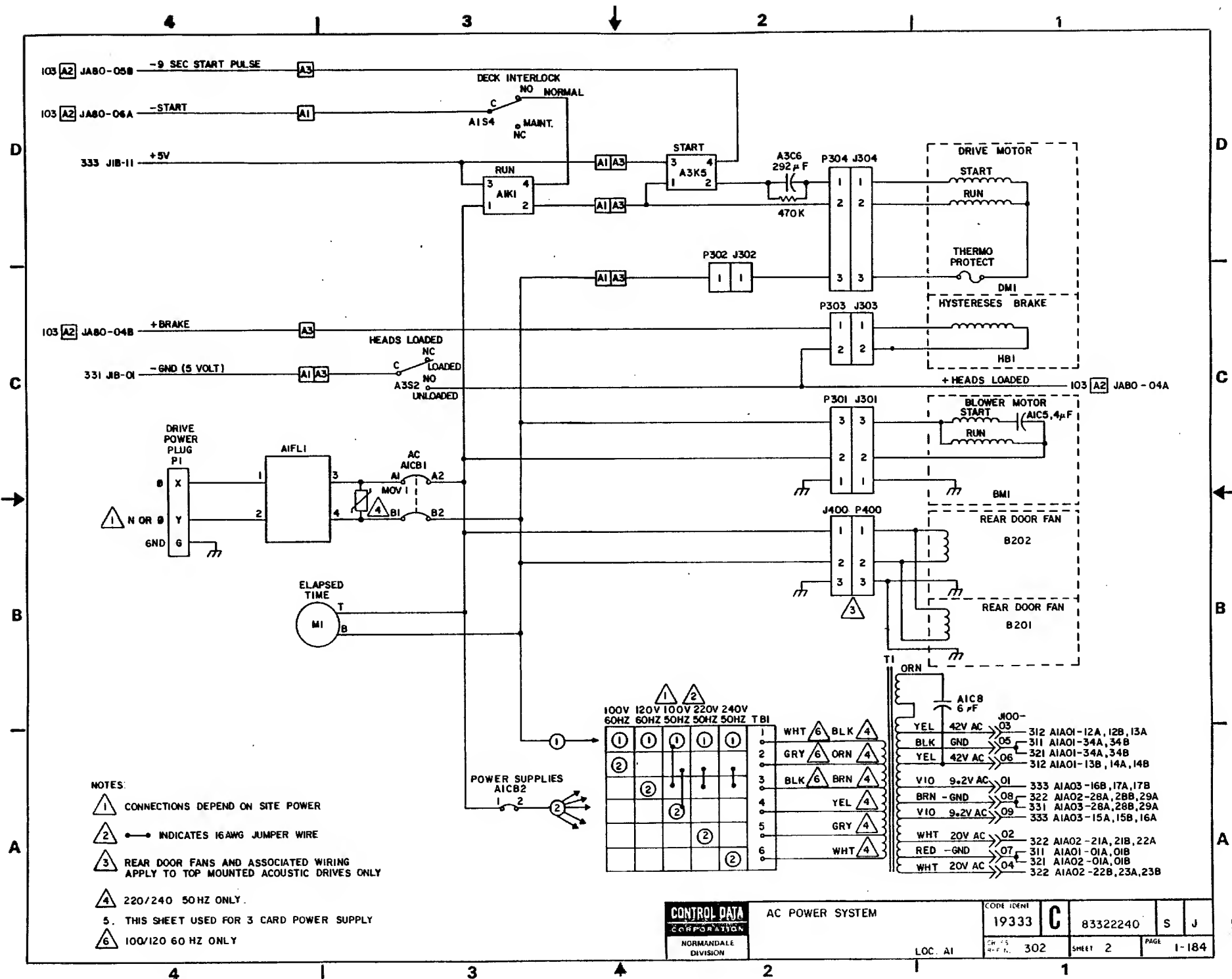
DRAWN	
CHECKED	
ENGINEER	
APPROVED	

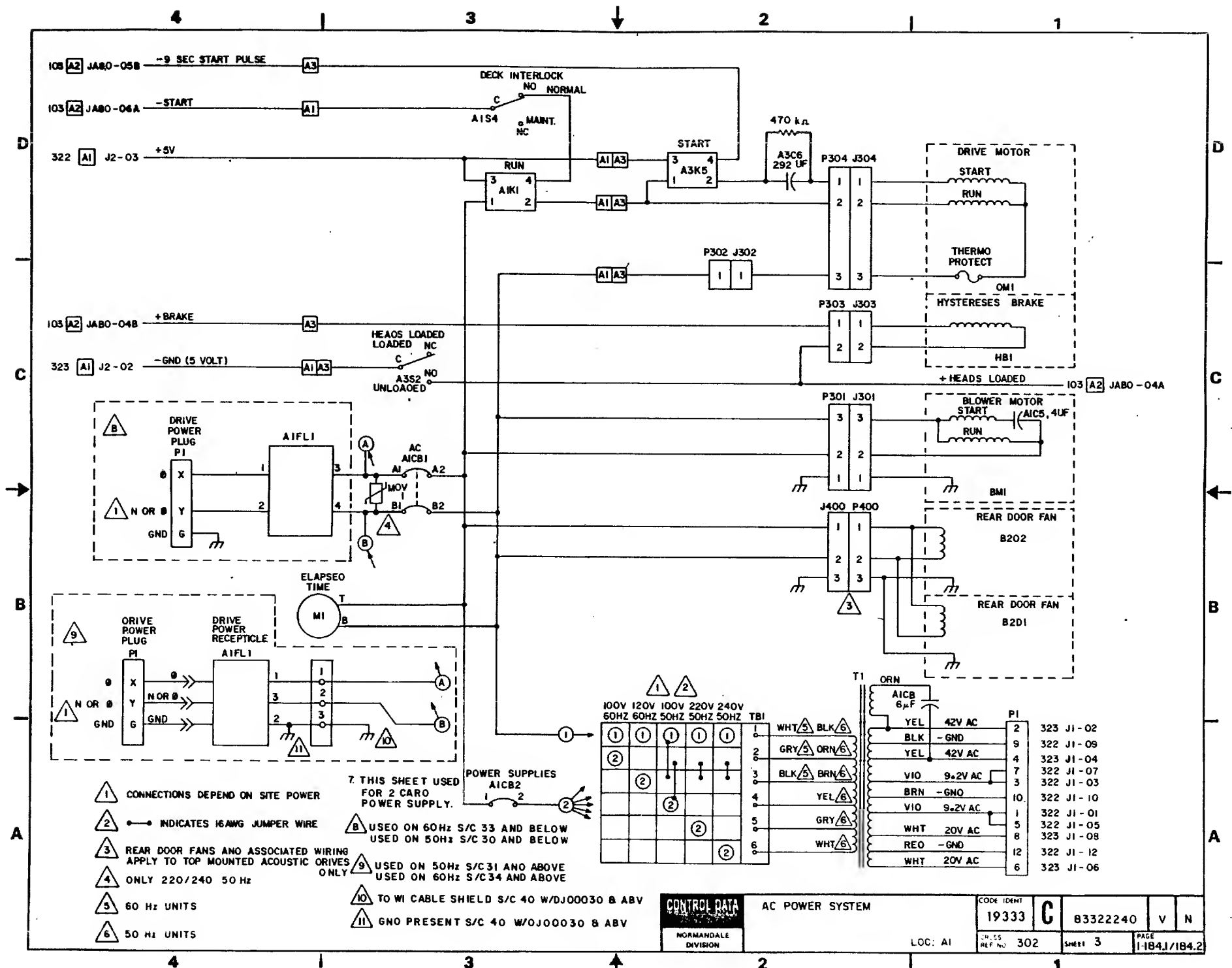
CONTROL DATA
CORPORATION
NORMANDALE
DIVISION

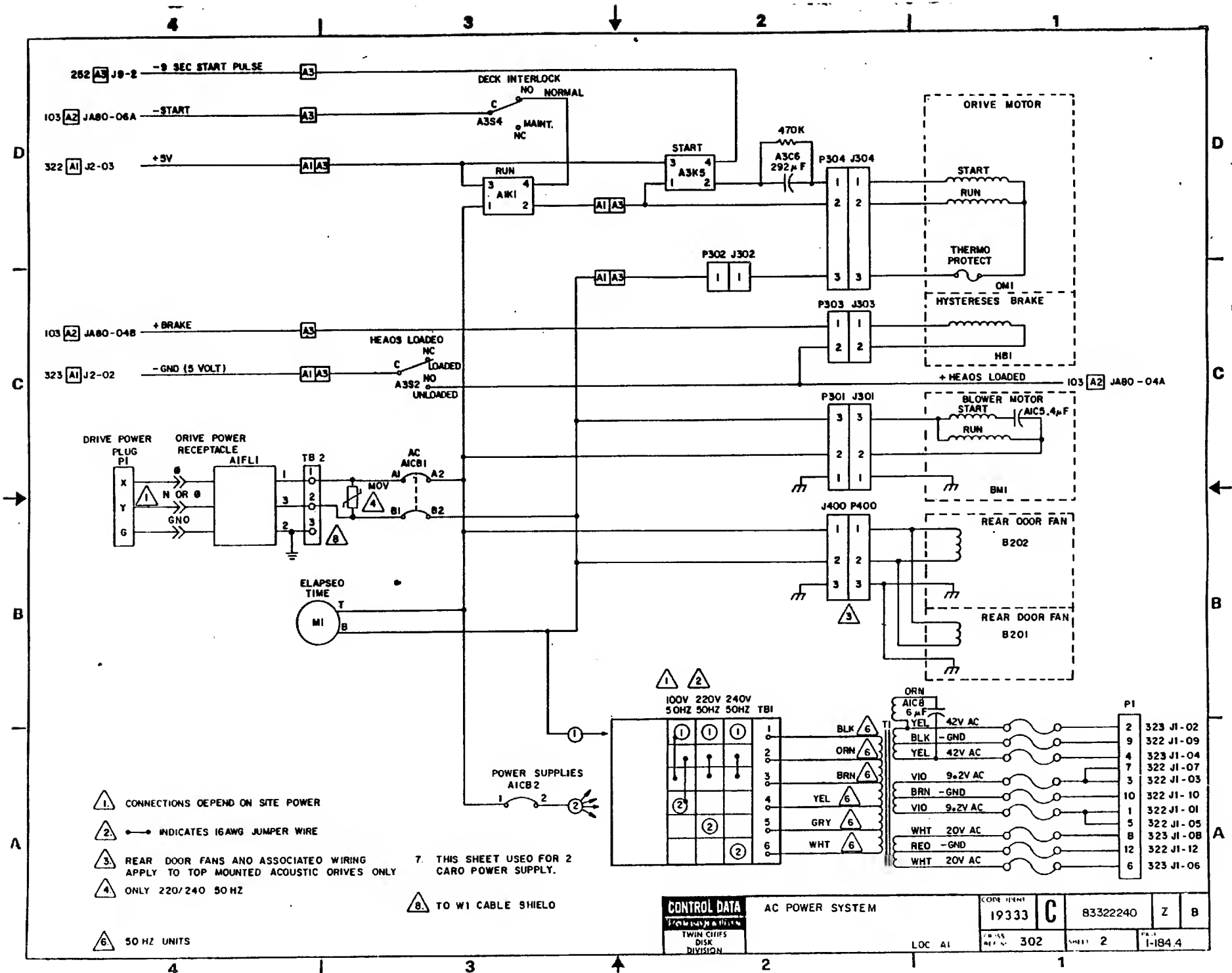
AC POWER SYSTEM
DIAGRAMS

CODE IDENT	19333	C	83322240	Y	P
PLANT NO.	301	SHEET	1 of 3	PAGE	1-183

LOC: A1

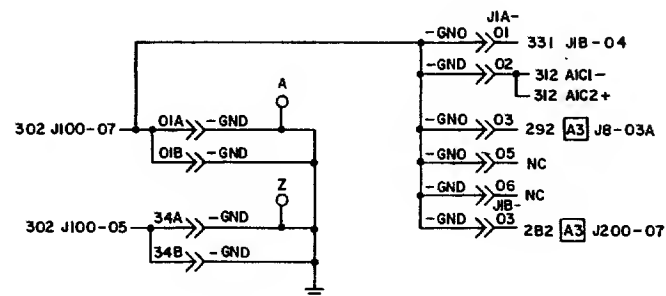






REVISION STATUS OF SHEETS																			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A	A																		
B	B																		
C	C																		
D	D																		
E	E																		

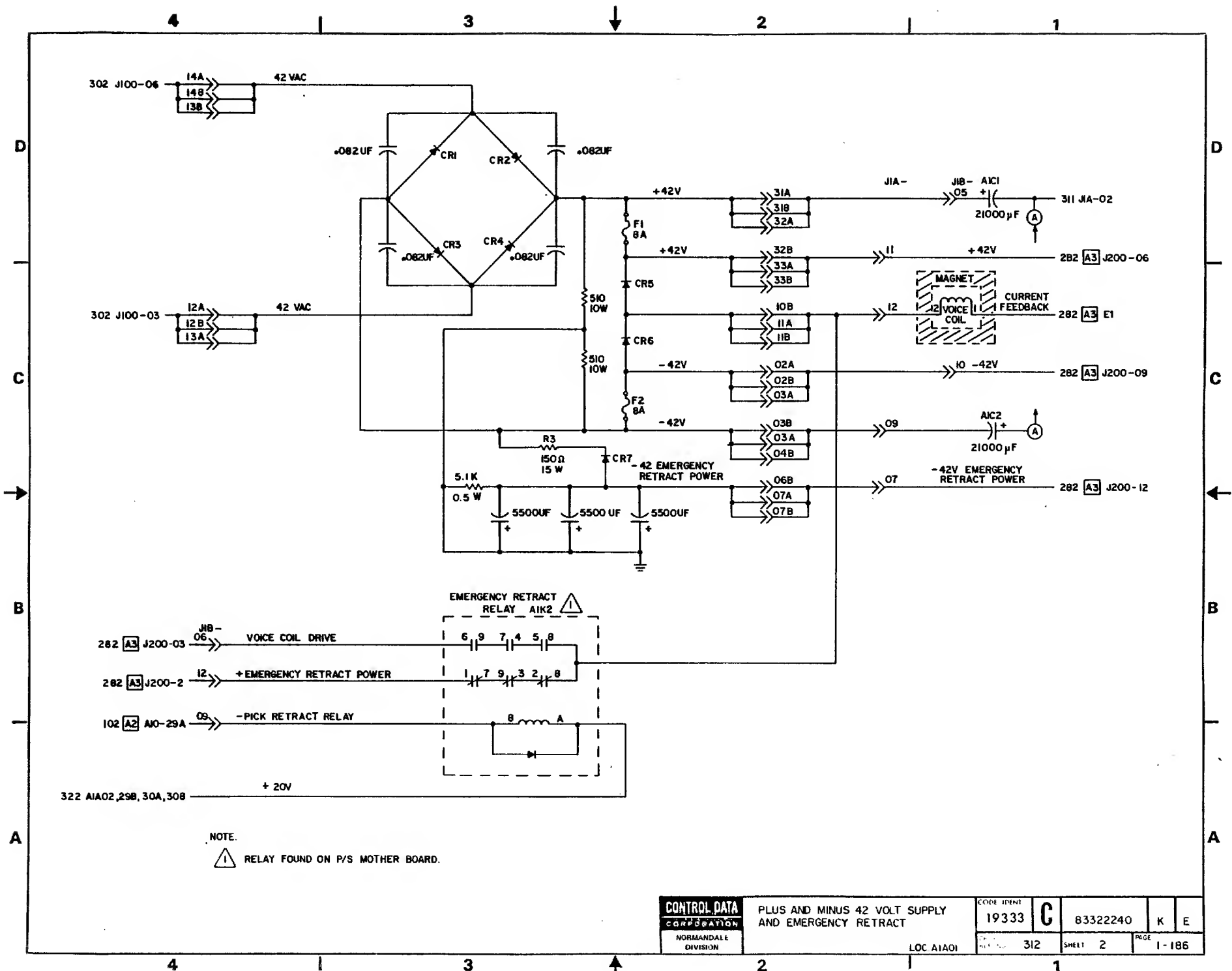
REVISIONS					
REV	ECO	DESCRIPTION	DRFT	DATE	CHK'D
A	PE23000	RELEASED	MLA	8-23-76	
B	PE48402	CORRECT DIAGRAMS	GR	12-20-76	
C	PE48428	CORRECT DIAGRAMS	DM	7-22-77	
D	PE55229	ADD HYBRID PWR SUP	MA	1-17-79	
E	PE55422	CHANGE FUSE	TH	5-23-79	



NOTE:

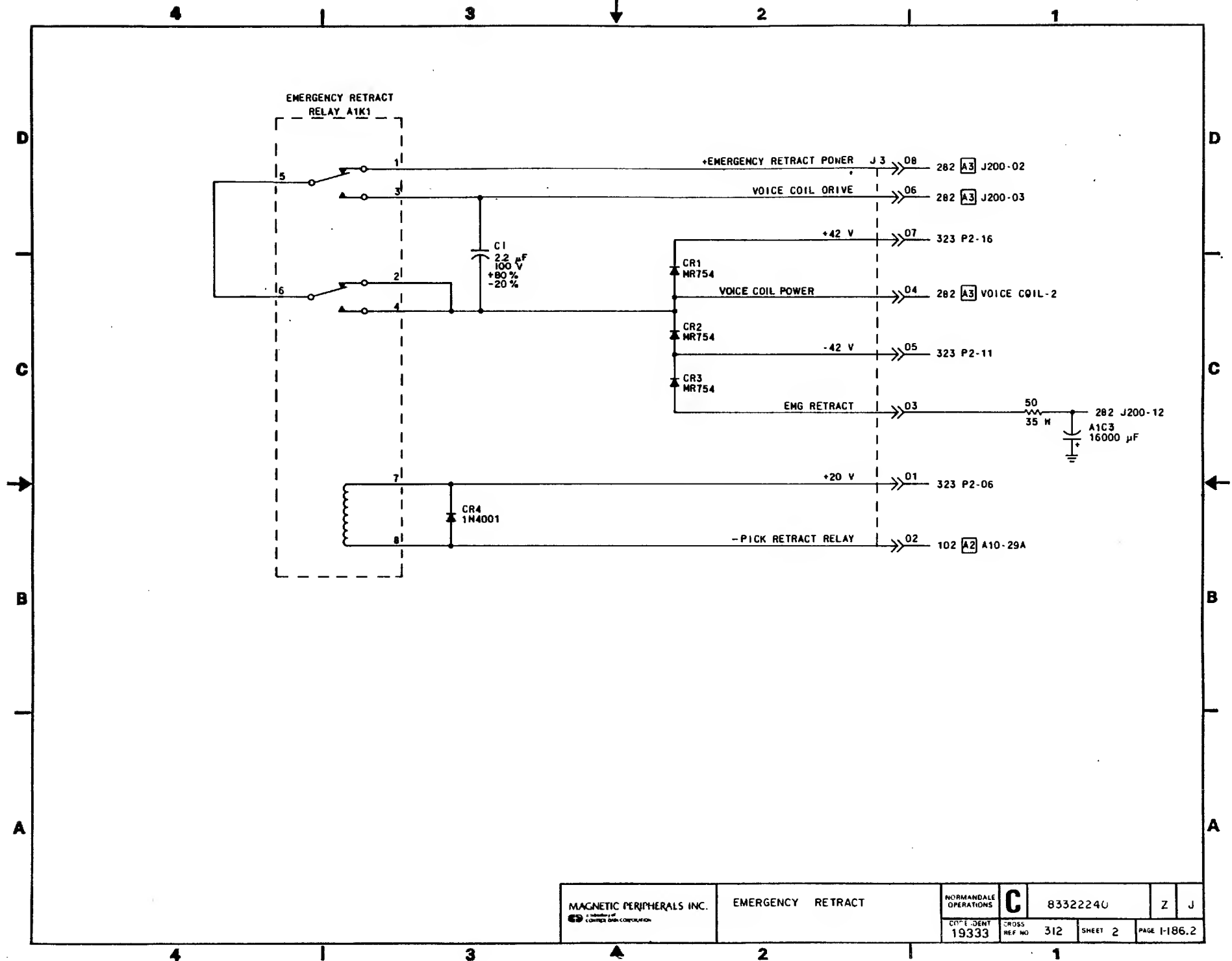
1. THIS SET USED FOR 3 CARD POWER SUPPLY

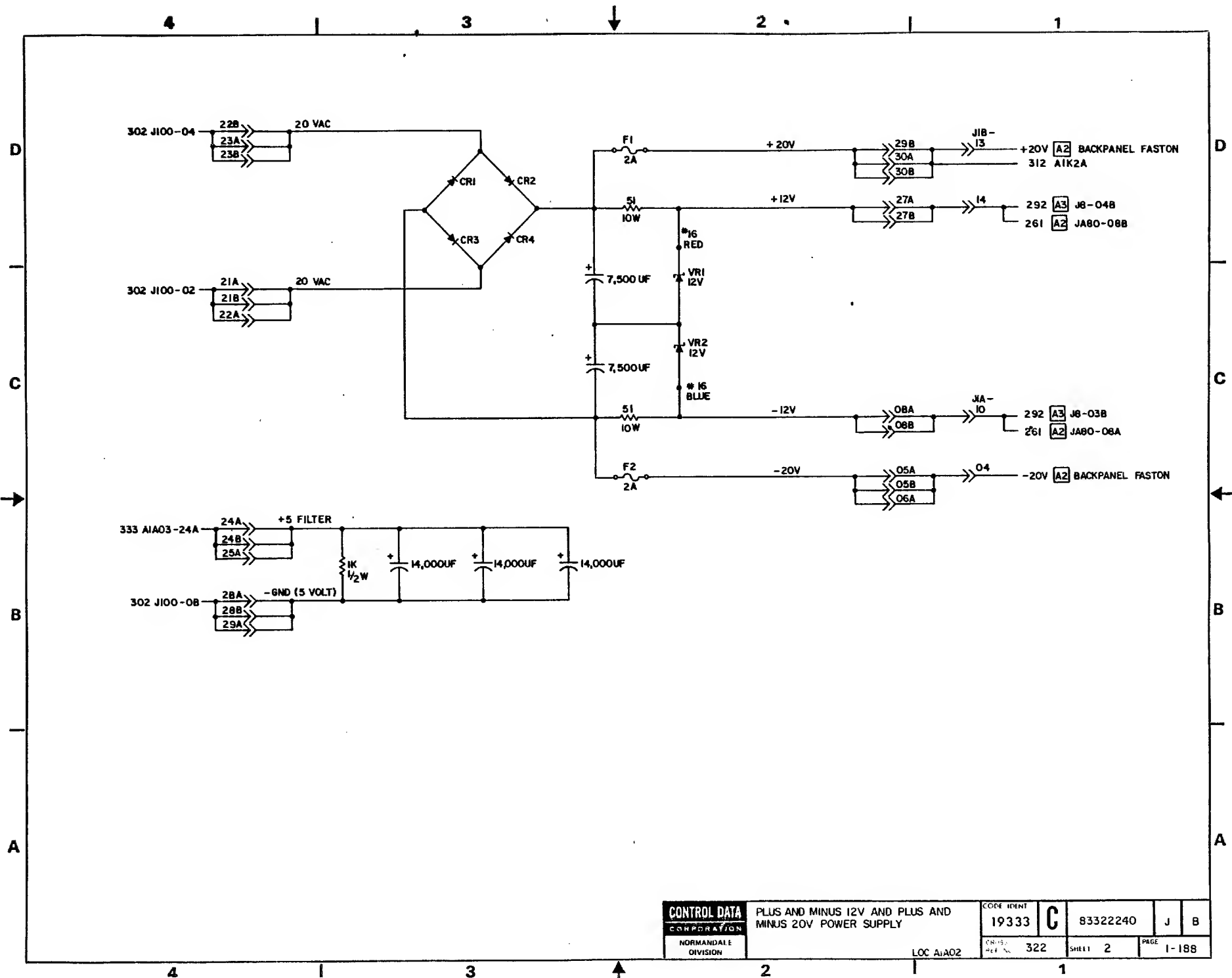
DRAWN	CHECKED	ENGINEER	APPROVED	CONTROL DATA CORPORATION	+42V POWER SUPPLY AND EMERGENCY RETRACT DIAGRAMS	CODE IDENT 19333	C	83322240	K	E
				NORMANDALE DIVISION	TYPE 55JV	LOC A1A01	311	SHEET 1 OF 2	PAGE 1-185	



[illegible][illegible]

UNOWN	11-27-77	CONTROL DATA EMERGENCY RETRACT DIAGRAMS TYPE: AXFV	CODE IDENT	19333	C	83322240	Z	J
CHEATER			DRUSE REC	311	SHEET	1 OF 2	PAGE	186.1
ENGINEER	RED		NORMANDALE DIVISION					
APPROVED	10-12-77							





CONTROL DATA
CORPORATION
NORMANDALE
DIVISION

PLUS AND MINUS 12V AND PLUS AND
MINUS 20V POWER SUPPLY

CODE IDENT 19333	C	83322240	J	B
LOC A1A02	322	SHEET 2	PAGE 1-188	

REVISION STATUS OF SHEETS

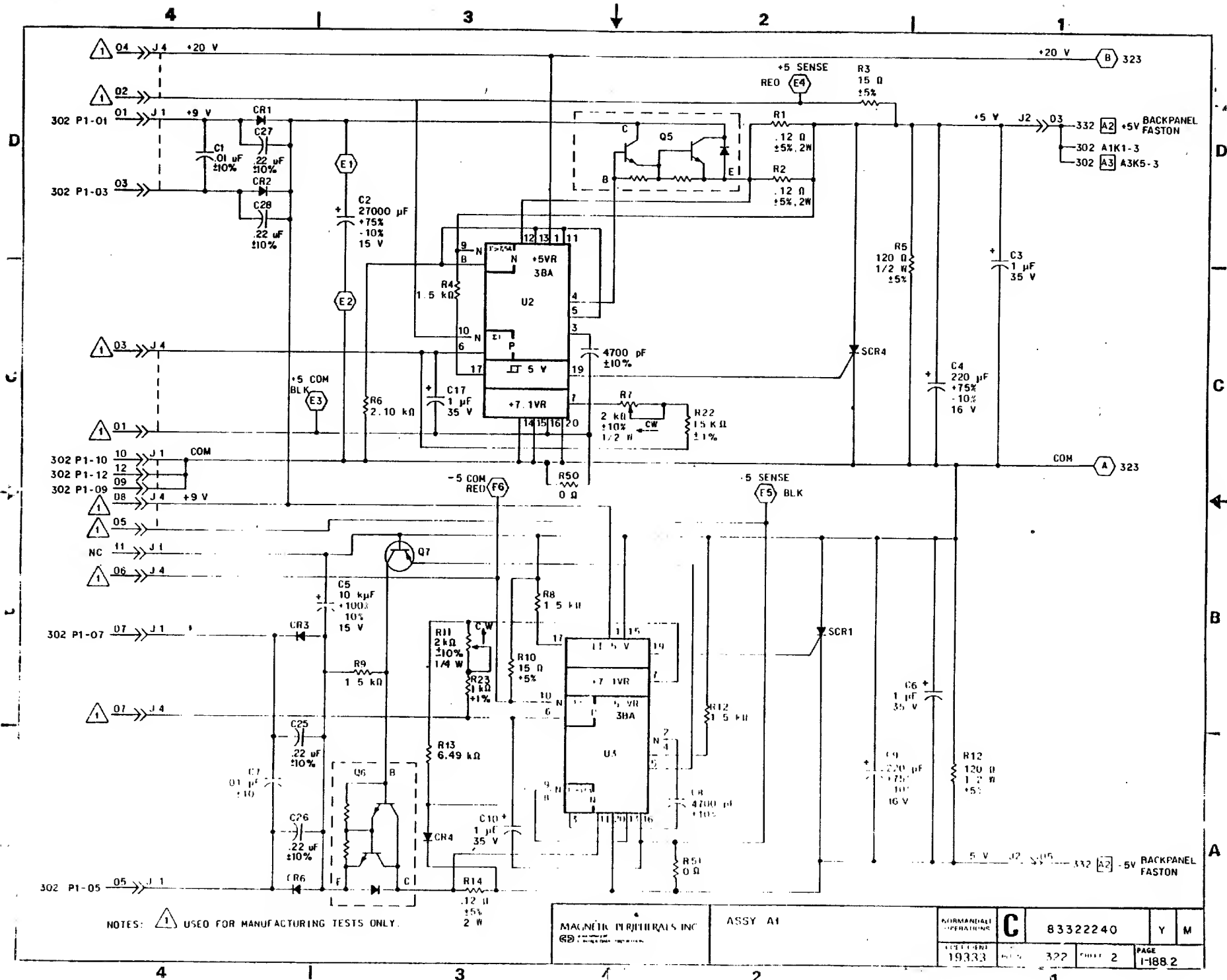
I	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A	A	A																	
B	B	B																	
C	C	C																	
D	D																		
E	E	E																	
F	F																		
G		G																	
H	H	H																	
J	J	J																	
K	K																		
L	L	L																	
M	M																		

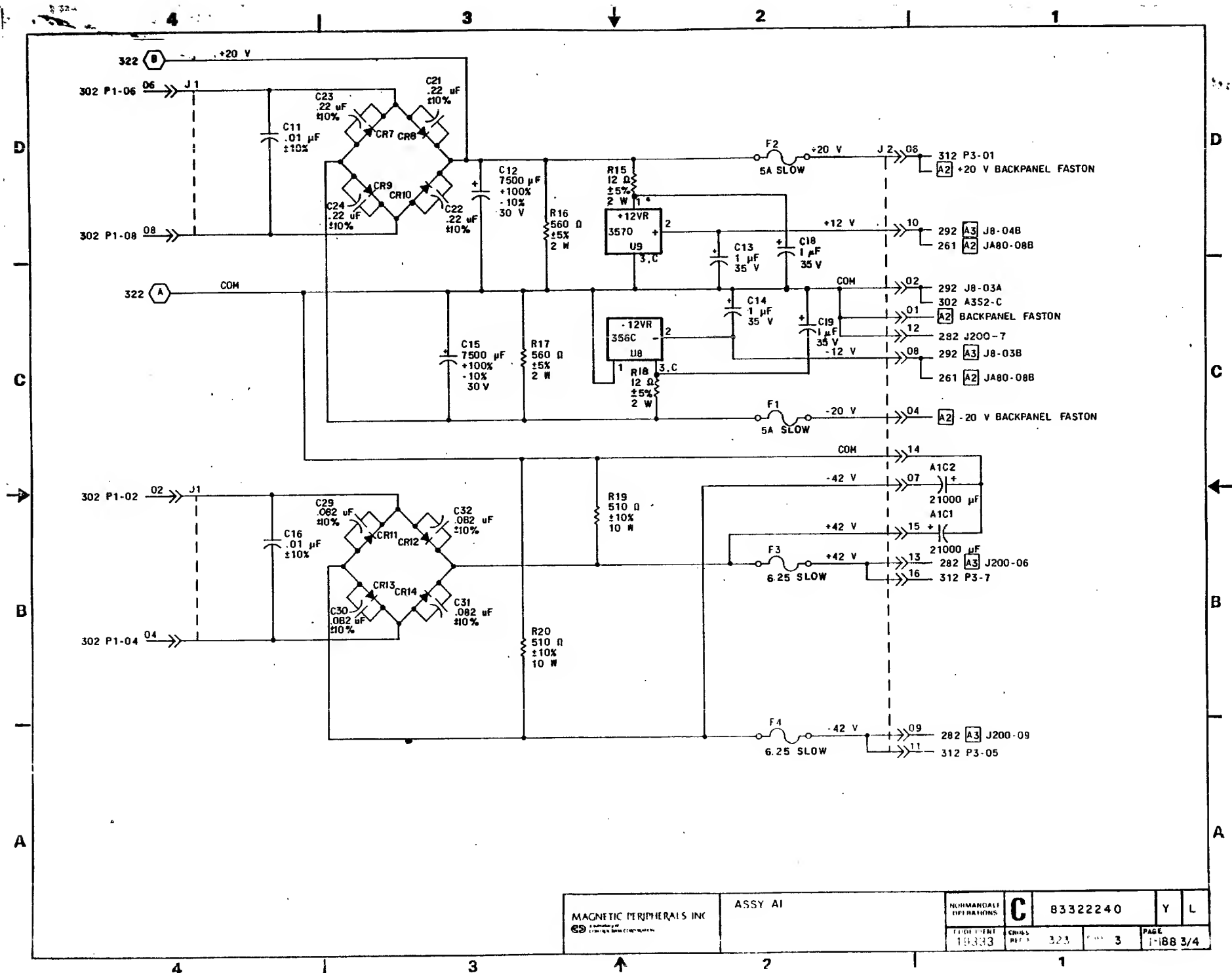
REVISIONS

REV	ECO.	DESCRIPTION	DFT	DATE	CHK'D
A	PE23100	RETRACED	GR	6-2-78	Y C
B	PE55223	HYBRID PWR SUP	GR	6-2-78	
C	PE55292	ADD CAP TO HYBRID CKT	GR	6-2-78	
D	PE55492	HYBRID PWR SUP FUSE CHANGE	MA	11-13-78	EL
E	PE55493	ERRATA CORRECTION	MA	11-14-78	
F	PE55767	CHANGE FOTS B BD	TH	6-8-79	
G	PE55790	LOG DIA 10 DATE	TH	6-27-79	4/4
H	DJ00228	PWR SUP CHG	MJ	2-1-82	U-14
J	DJ22000	TRANSFER FROM PE	SMS	4-28-82	C
K	DJ00325	DELETE AC/DC GND ISOL	FA	8/16/82	U-D
L	DJ00360	ADD CAPS	FA	8/16/82	U-S-B
M	DJ00426	NEW EXKV BD BLANK	MJ	1-13-83	S-F-I

THIS SET USED FOR EXKV REV AF & ABV.

DATE	1983	1	8	3	3	2	2	4	0	Y	M
PROJECT	AT POWER SUPPLY DIAGRAMS										
REVISION	11-13-82										
REF	83214832										





REVISION STATUS OF SHEETS

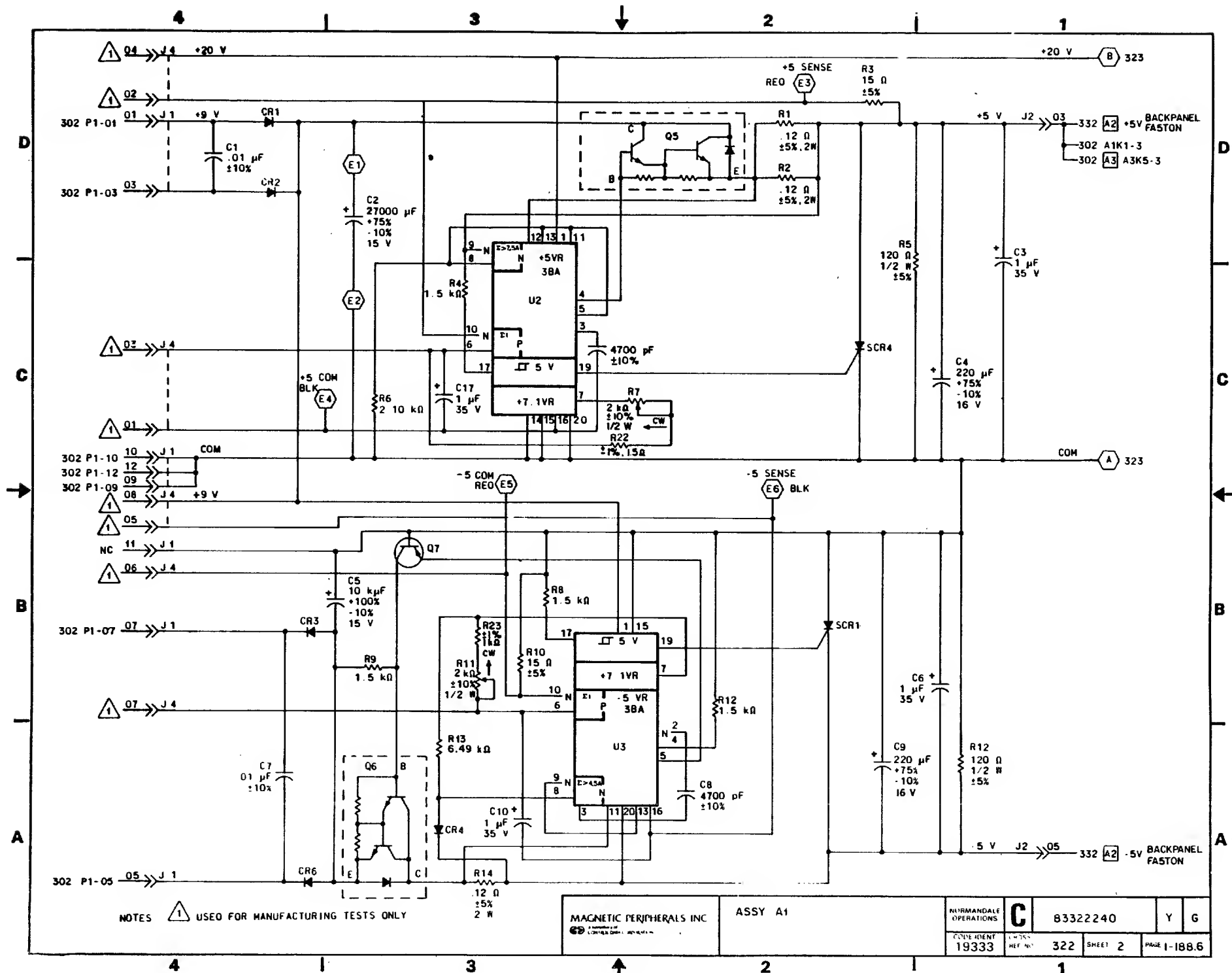
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A	A	A	A																	
B	B	B	B																	
C	C	C	C																	
D	D	D	D																	
E	E	E	E																	
F	F	E	F																	
G	G	G	F																	

REVISIONS

REV	ECO.	DESCRIPTION	DRAFT	DATE	CHK'D
A	PE23000	RELEASED	NA	10-11-78	KE
B	PE55229	HYBRID PWR SUP	GR	8-2-78	
C	PE55292	ADD CAP TO HYBRID CKT	GR	8-2-78	
D	PE55492	HYBRID PWR. SUP. FUSE CHANGE	NA	11-13-78	DE
E	PE55493	ERROR CORRECTION	NA	11-14-78	DE
F	PE55790	RES VALUE CHG	MF	7-16-80	
G	PE55767	CHG POTS AND BD	MF	7-16-80	

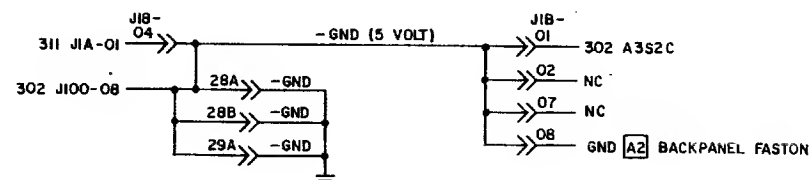
THIS SET USED FOR CXXKV REV AE & BELOW. (2 CARD PWR SUP)

DRAWN <i>W. Johnson</i>	CHECKED <i>R. E. Davis</i>	ENGINEER <i>R. E. Davis</i>	APPROVED	DATE 10-15-77	DATE 10-17-77	CONTROL DATA	NORMANDALE DIVISION	AI POWER SUPPLY DIAGRAMS	TYPE. CXXKV	CODE IDENT 19333	C	83322240	Z	G
				CROSS REF NO 321	SHEET 1 OF 3	PAGE 1-188.5								



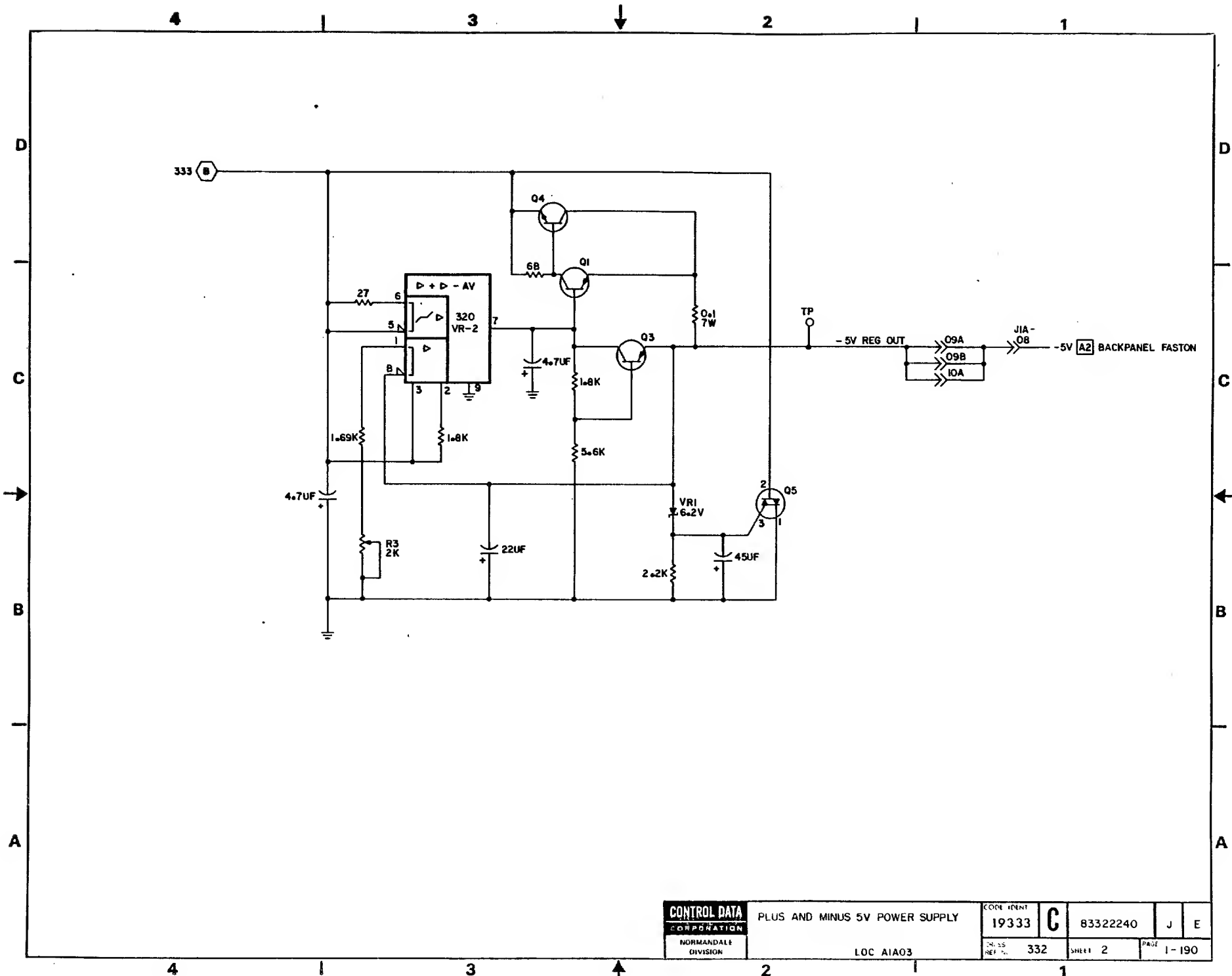
REVISION STATUS OF SHEETS																			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A	A	A																	
B	A	B																	
C	A	C																	
D	D	D																	
E	E	E																	

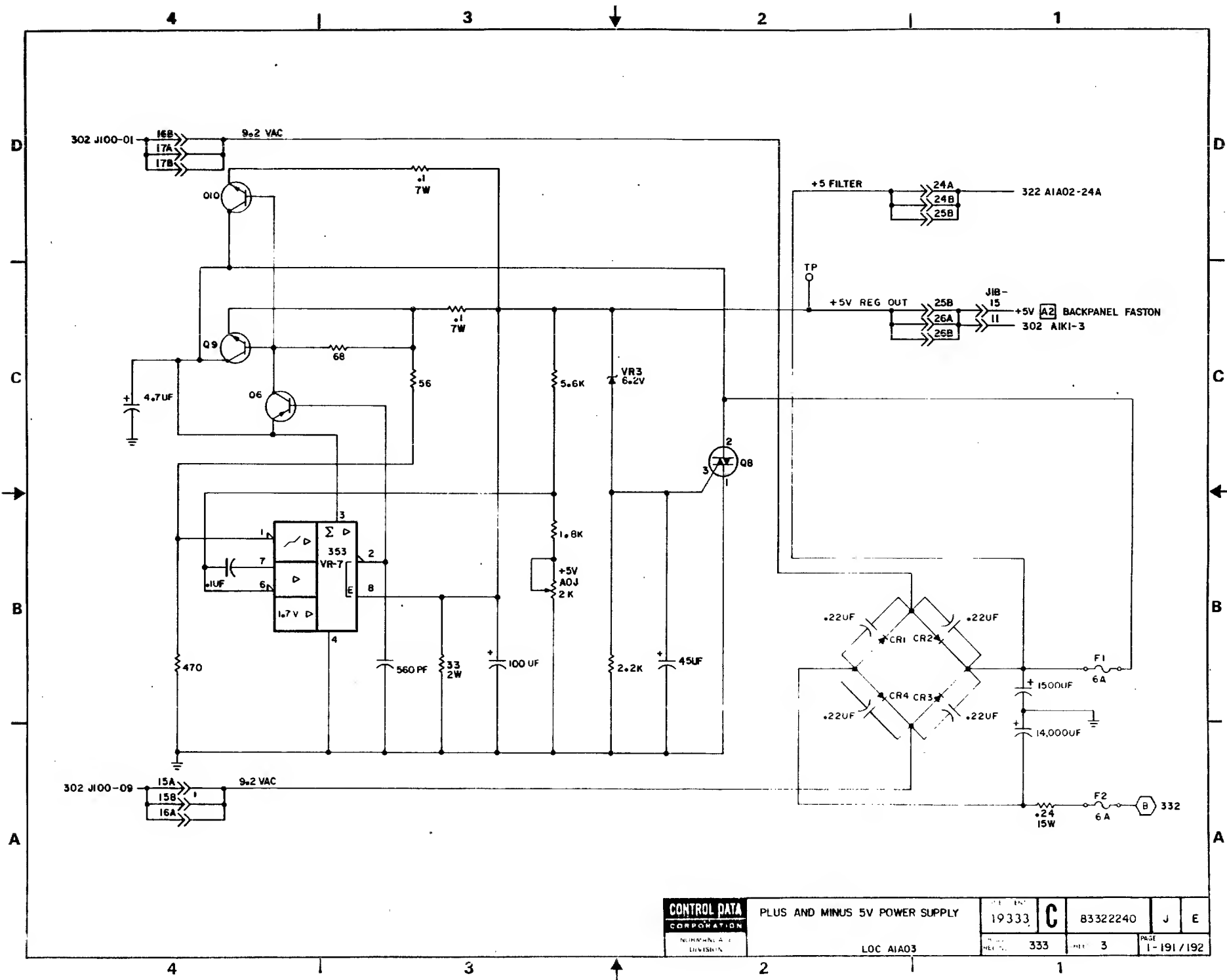
REVISIONS				
REV	ECO	DESCRIPTION	DWFT	DATE
A	PE23000	RELEASE	MLA	8-25-76
B	PE48296	CORRECT DIAGRAMS	SB	11-2-76
C	PE48402	CORRECT DIAGRAMS	GR	12-20-76
D	PE48523	CORRECT DIAGRAMS	DM	7-22-77
E	PE55229	ADD HYBRID PWR UP	MA	1-19-79



THIS SET USED ON 3 CARD PWR SUP

DRAWN	CHECKED	ENGINEER	APPROVED	CONTROL DATA CORPORATION	PLUS AND MINUS 5V POWER SUPPLY DIAGRAMS	CODE 19333	83322240	Z	E
				NORMANDALE DIVISION	TYPE ASHV	LOC AIA03	331	SHEET 1 OF 3	PAGE 1-189





CONTROL DATA
CORPORATION
NORTH AVENUE
DIVISION

PLUS AND MINUS 5V POWER SUPPLY

LOC AIA03

19333

C

83322240

J E

333

3

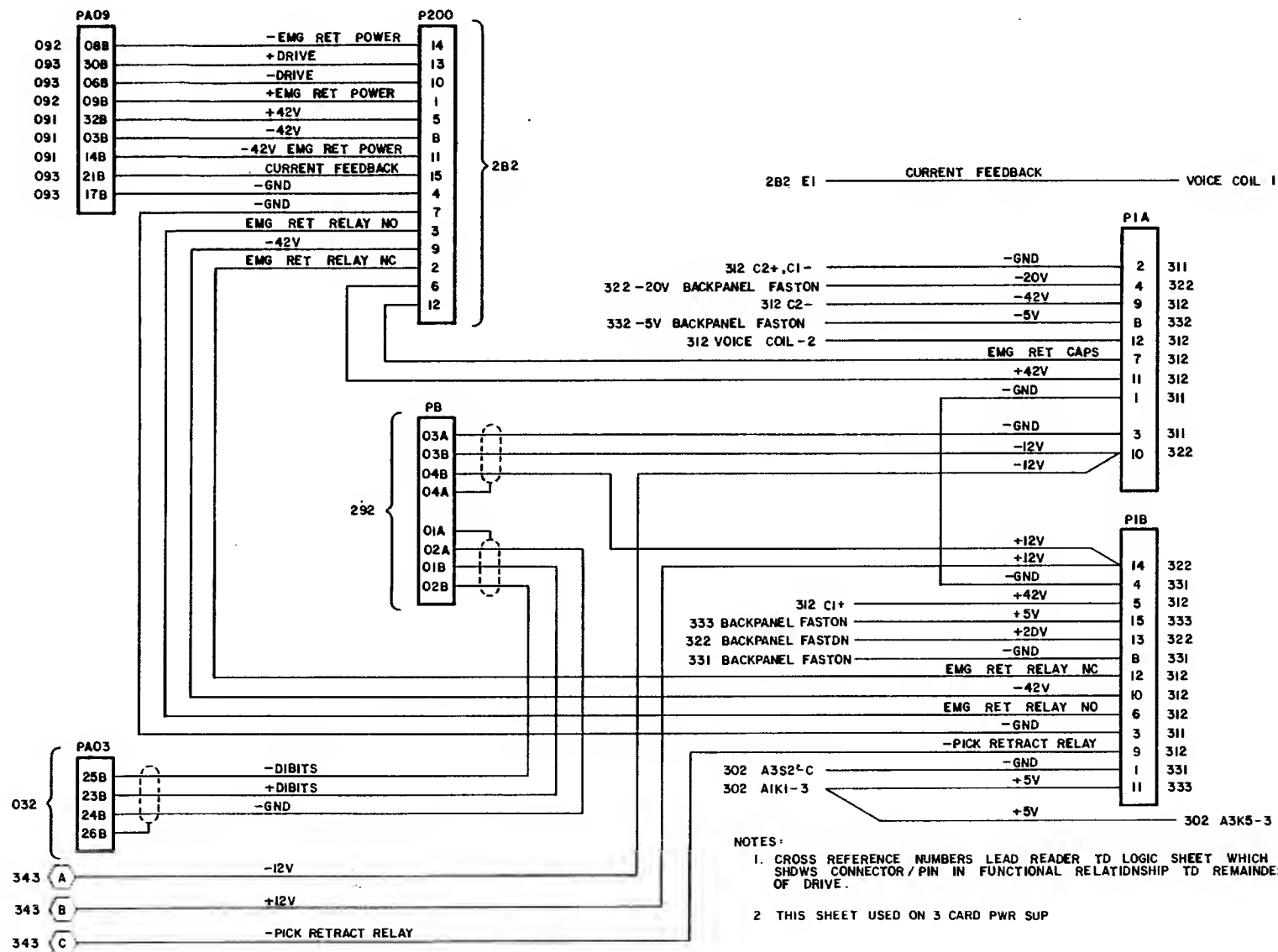
PAGE 1-191/192

[illegible][illegible]

1 ALL OF W1 HARNESS ASSY, W6 CABLE ASSY AND W11 & W12 CABLE ASSY'S
ARE SHOWN ON CROSS REF 302 AND NOT REPEATED ON
THIS DIAGRAM SET.

DESIGN	DATE	BY	CONTROL DATA CORPORATION NORMANDALE DIVISION	HARNESS DIAGRAMS W2, W3, W4	CODE IDENT	C	83322240	L	F
APPROVED					19333				
ENGINEER									
DATE									
					341	SHEET 1 OF 4		PAGE 1-193	

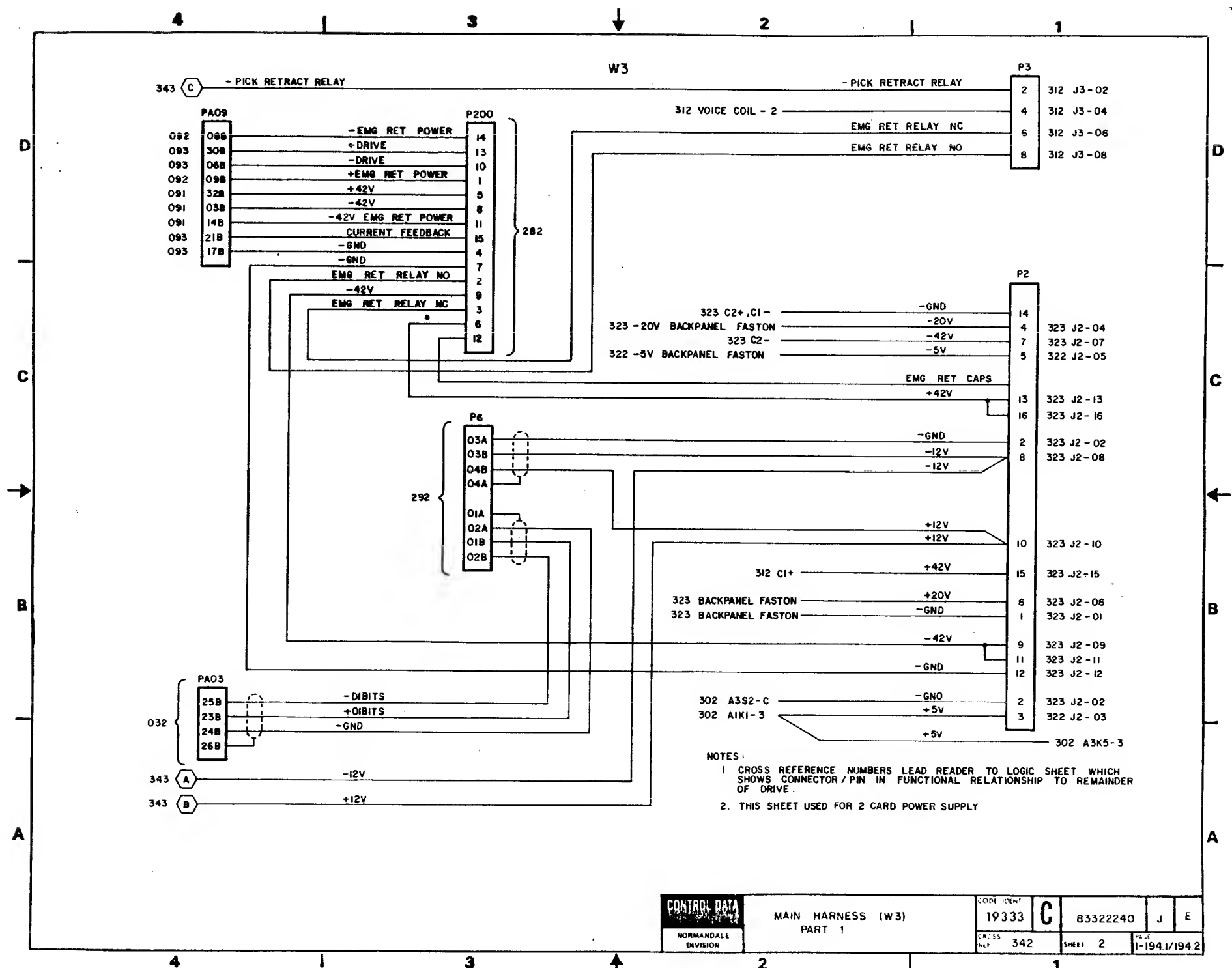
W3

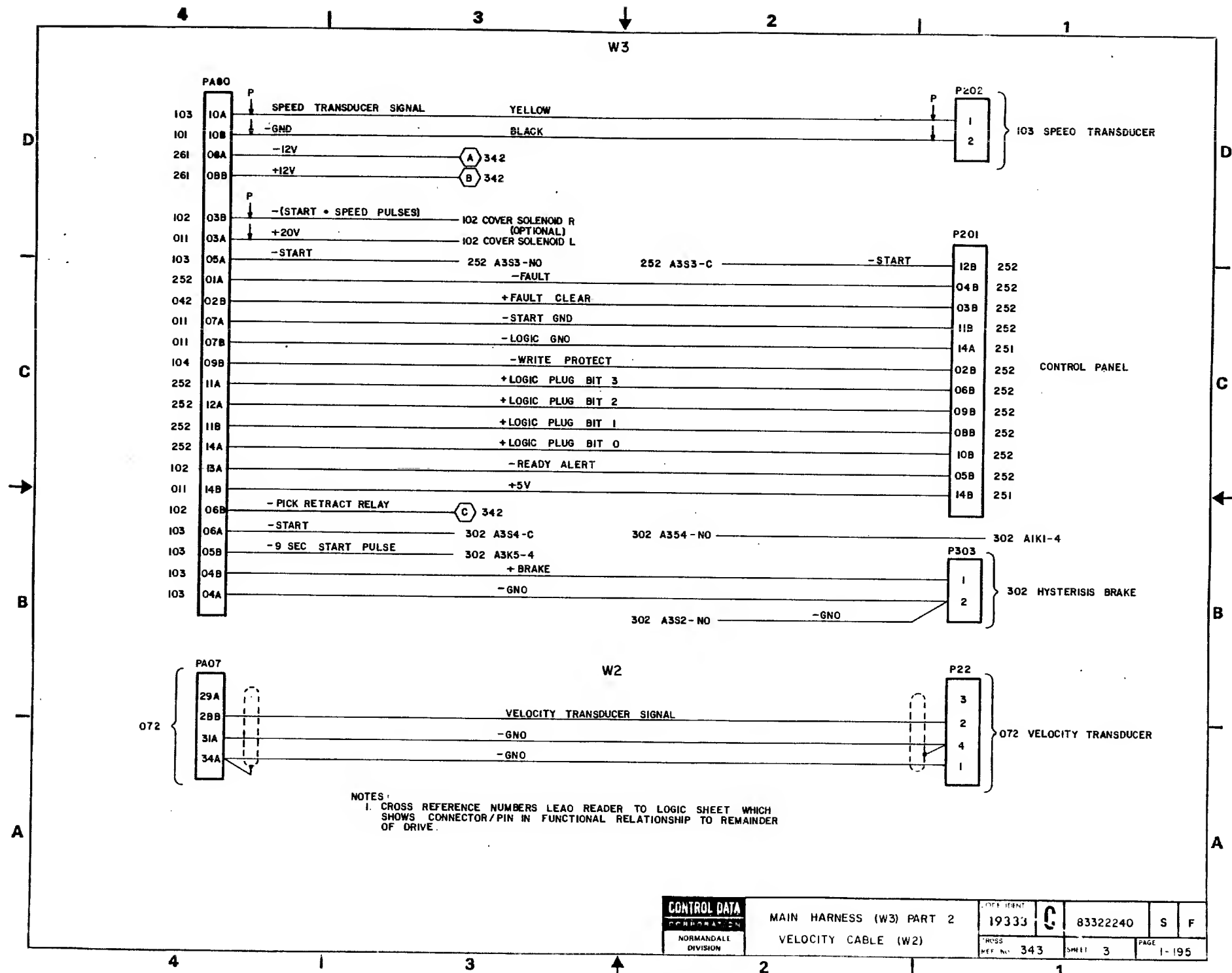


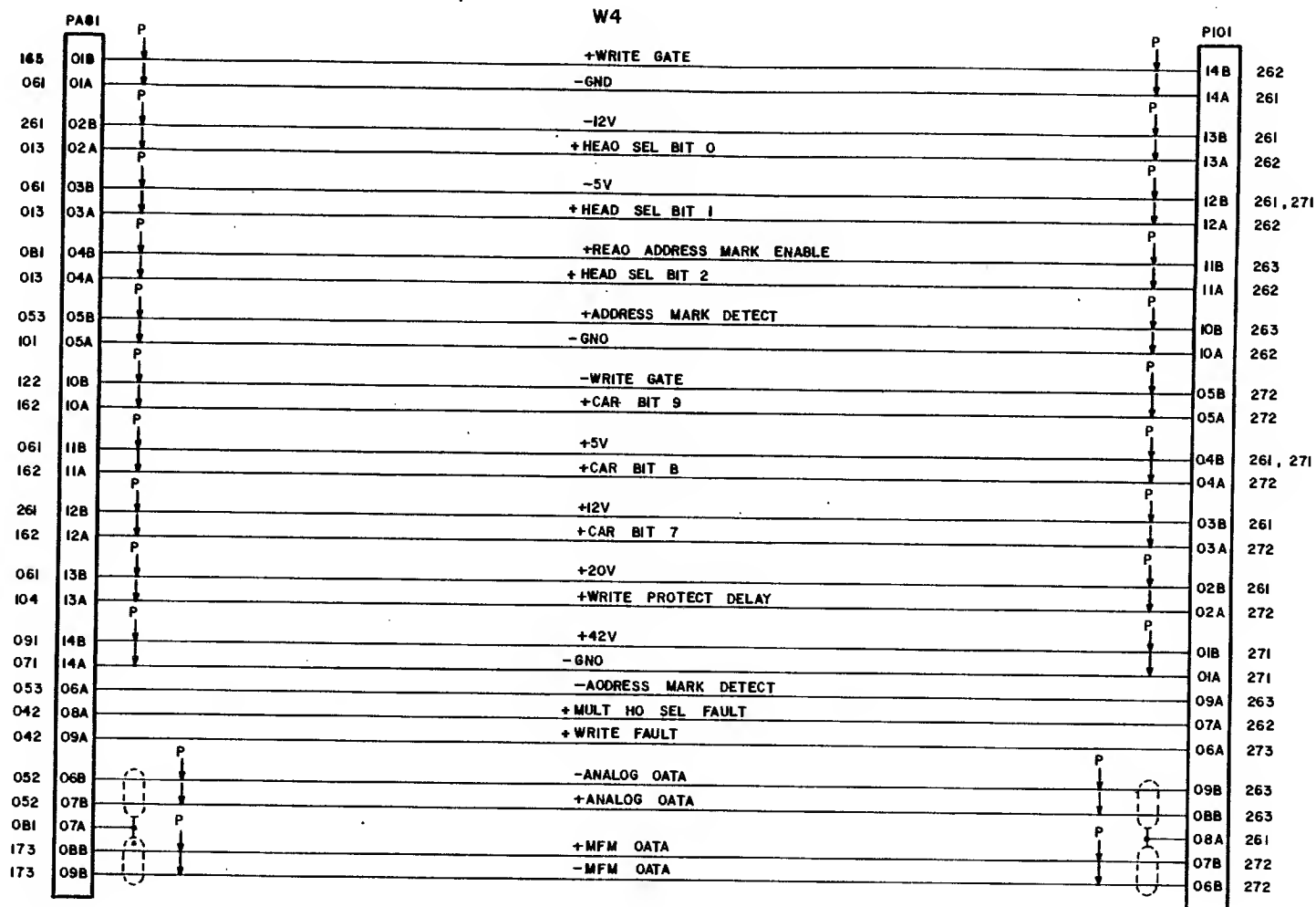
CONTROL DATA
CORPORATION
NORMANDALE
DIVISION

MAIN HARNESS (W3)
PART 1

CODE IDENT	19333	C	83322240	J	E
CROSS REF	342	SHEET	2	PAGE	1-194







NOTES:
1. CROSS REFERENCE NUMBERS LEAO READER TO LOGIC SHEET WHICH SHOWS CONNECTOR/PIN IN FUNCTIONAL RELATIONSHIP TO REMAINDER OF DRIVE.


CONTROL DATA
CORPORATION
NORMANDALE
DIVISION

READ WRITE CABLE (W4)

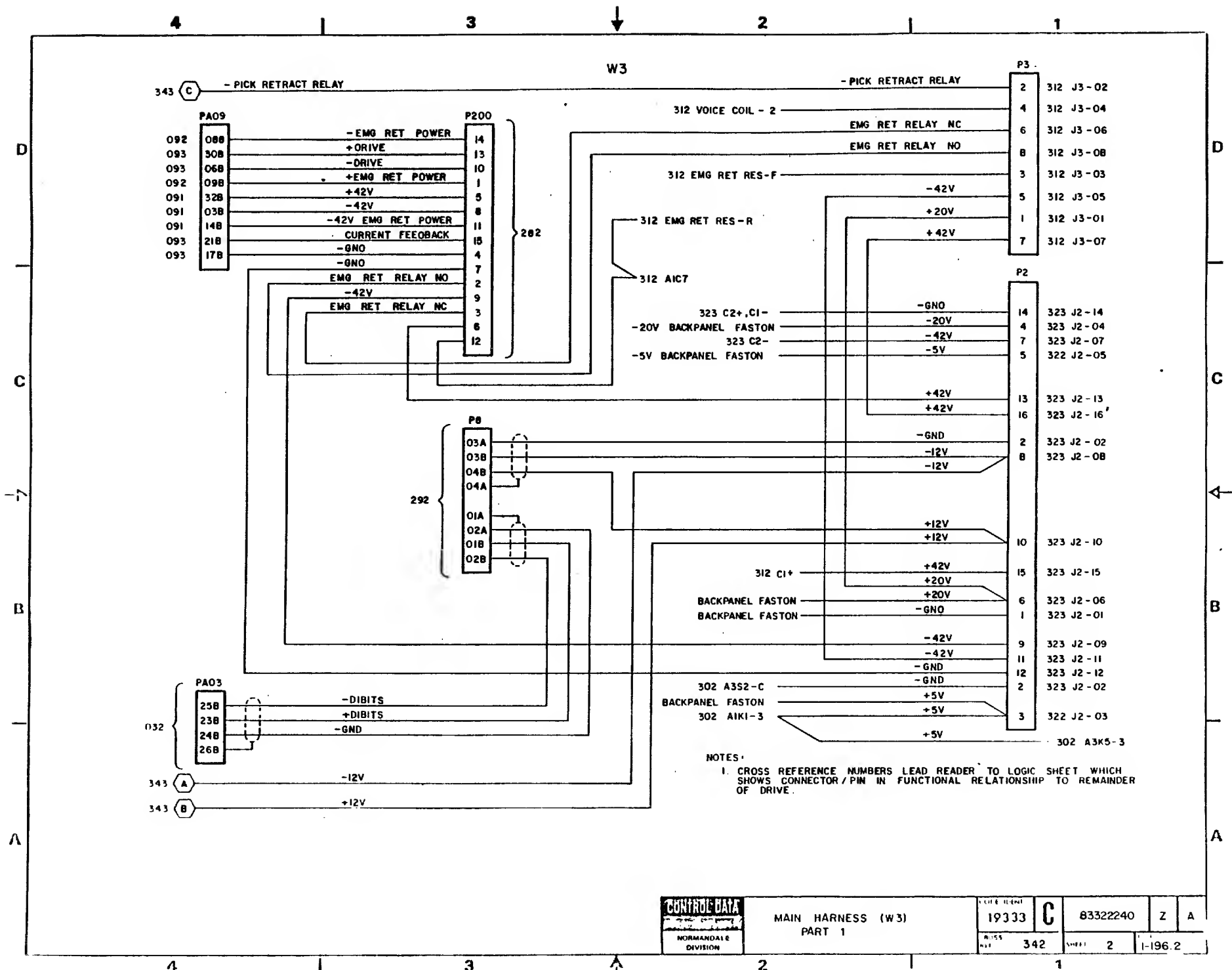
CODE IDENT 19333	C	83322240	C	C
FIGURE NO 344	SHEET 4	PAGE	1-196	

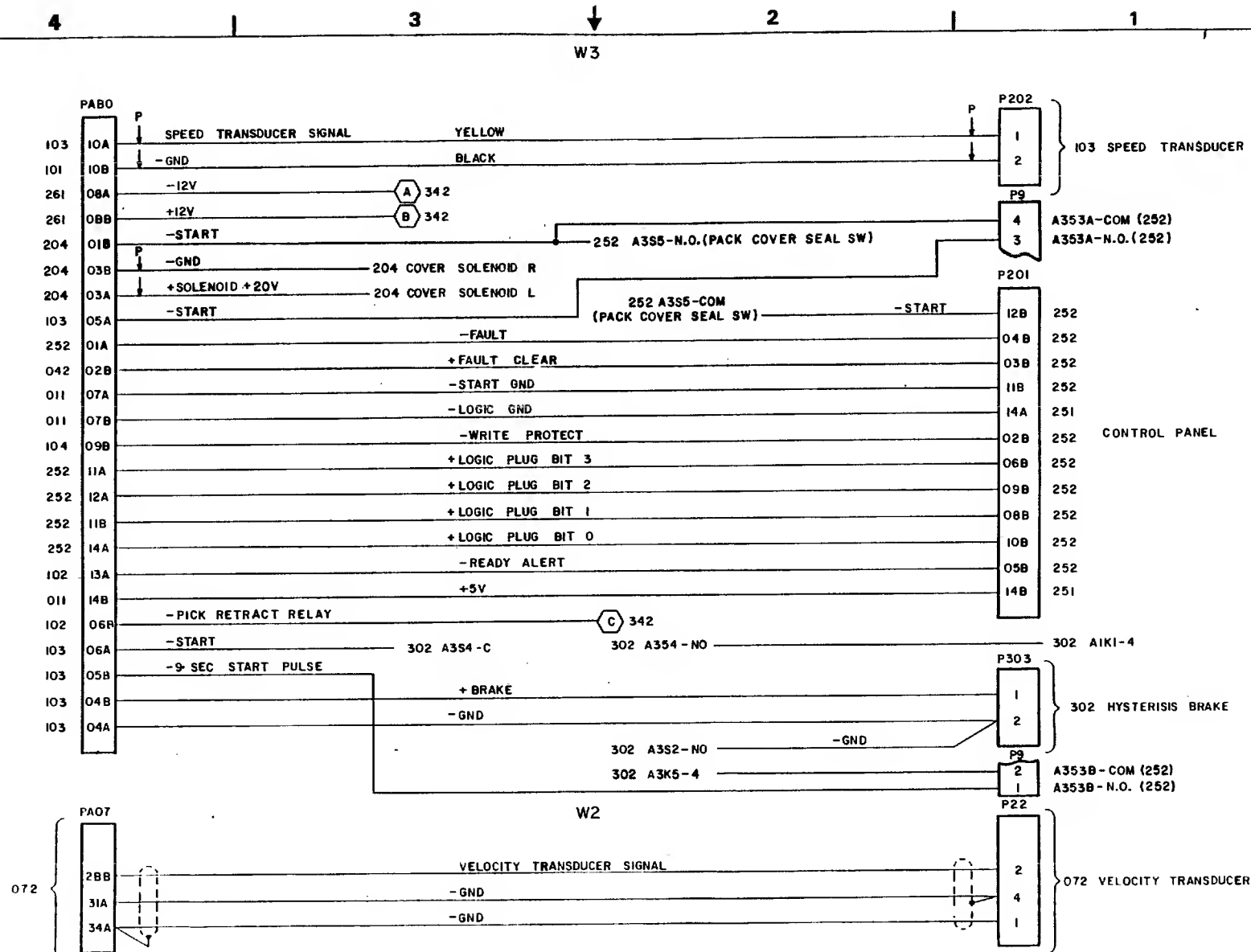
[illegible][illegible]

1 ALL OF W1 HARNESS ASSY AND W11 & W12 CABLE ASSYS
ARE SHOWN ON CROSS REF 732 AND NOT REPEATED ON
THIS DIAGRAM SET.

NAME	K. BARTSCH	11-18-62		HARNESS DIAGRAMS	19333	C	83322240	-Z	A	
DATE										
TIME										
REMARKS										

REF. 83214872



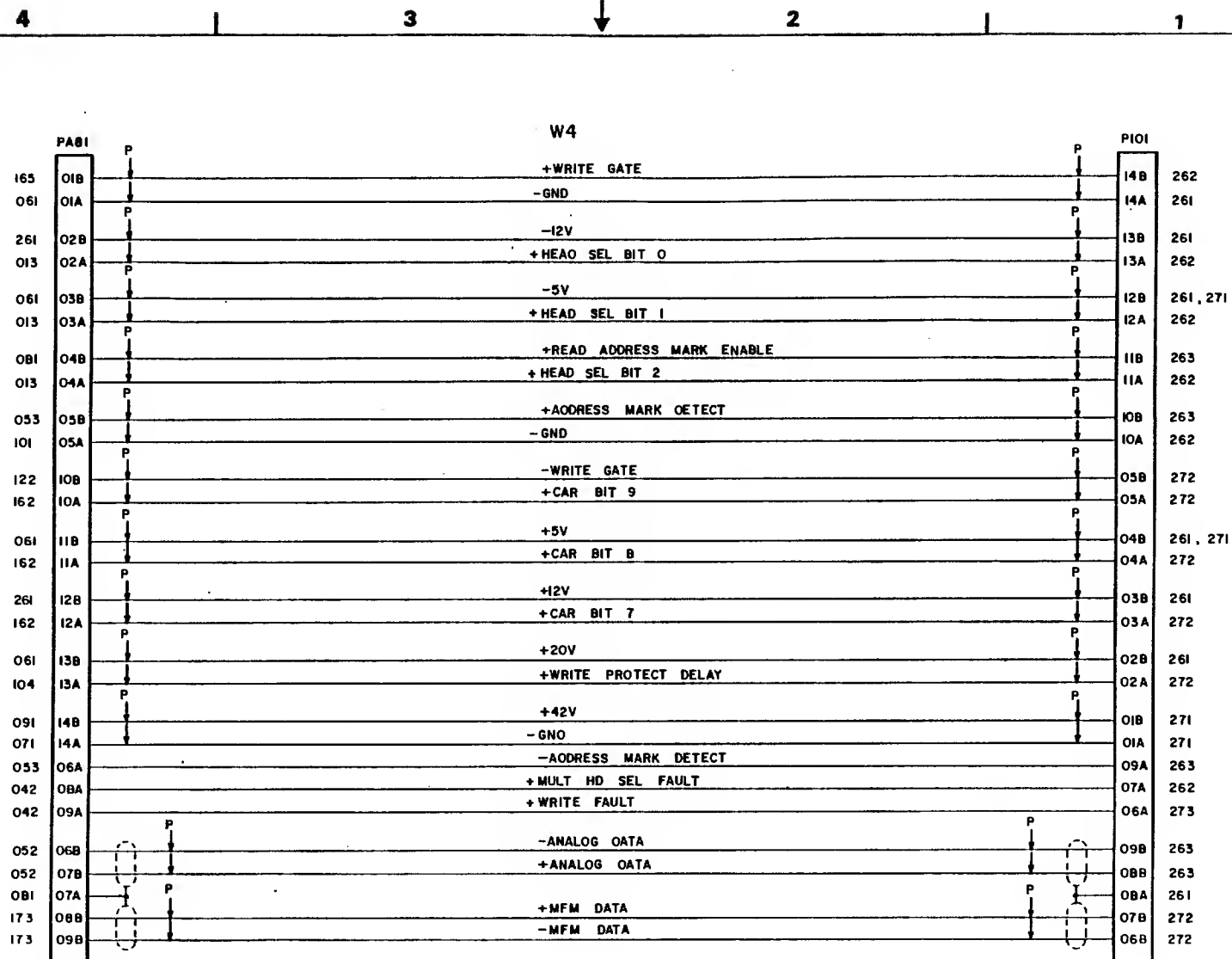


NOTES:
1 CROSS REFERENCE NUMBERS LEAD READER TO LOGIC SHEET WHICH SHOWS CONNECTOR/PIN IN FUNCTIONAL RELATIONSHIP TO REMAINDER OF DRIVE



MAIN HARNESS (W3) PART 2
VELOCITY CABLE (W2)

19333	C	83322240	Z	A
343	3	1-196.3		



NOTE:
CROSS REFERENCE NUMBERS LEAD READER TO LOGIC
SHEET WHICH SHOWS CONNECTOR/PIN IN FUNCTIONAL
RELATIONSHIP TO REMAINDER OF DRIVE.



READ WRITE CABLE (W4)

19333	C	83322240	Z	A
344	4	1-1964		

SECTION 2

WIRE LISTS

INTRODUCTION

Section 2 contains the wiring for the backpanels used on the 60 Pin I/O, the 50 Pin I/O, and the 60 Pin I/O with Index and Sector in B Cable. The first part of section 2 explains how to use the list and identifies the columns shown on the lists. Only the wiring for the backpanel is shown on the wire lists. All other wiring is shown on the cabling diagrams.

READING WIRE LISTS

Wire lists show the origin, destination, and Z level of all wirewrap connections on the logic chassis backpanel. The wires are listed in order of card location and pin number. The lowest numbered card location and pin number are listed first and the highest numbered card location and pin number are listed last. The wire list is a double ended list. This means that all wires will be listed twice: first as the origin, then as the destination. Following is an explanation of all the columns used on the wire list (refer to figure 2-1).

SIGNAL NAME OR NUMBER IDENTIFICATION

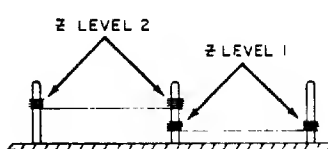
The signal name or number identification column is the first column on the wire list. The number shown in this column is for factory use only.

ORIGIN/DESTINATION

The origin column identifies the card location and pin number on which the wire begins. The destination column identifies the opposite end of the wire. Both columns contain a six character number that identifies the exact location of the wire. The first three characters represent the card location. The second three characters represent the pin number on which the wire is attached. Following is a typical example of the number that appears in the Origin/Destination column.

Example:

Card Location
Pin Identifier
A06 12A

TITLE WIREWRAP LIST				WL	DOCUMENT NO. LOGIC W/W	SHEET NO. 1 of 12	REV. A
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTINATION	Z LEVEL	NOTES			
102111	A0101B	A0102A	1				
102111	A0102A	A0101B	1				
100108	A0102B	A1708A	1				
100211	A0103A	A0231A	1				
100206	A0230A	A1712A	1				
100205	A0230B	A0612B	1				
100203	A0231A	A1326B	2				
100211	A0231A	A0103A	1				

9E82

Figure 2-1. Example of Logic Wirewrap List

Z LEVEL

The Z level refers to the position of the wire located on the pin. There are two Z levels on all pins (refer to figure 2-1). Z level 1 identifies the wirewrap connection closer to the surface of the wirewrap panel. Z level 2 identifies the wirewrap connection farthest from the surface of the wirewrap panel. All pins may contain two wires. However, if the pin contains only one wire, that wire will be connected on Z level 1. The same Z level is maintained at both ends of all wirewrap connections.

NOTES

The notes column is the last column on the wire list. Signal names, history, or other pertinent information is shown in the notes column.

60 PIN I/O

TITLE Logic Wirewrap - Applicable to 60 Pin I/O				WL	DOCUMENT NO. 77568123/48	SHEET NO. 1 of 26	REV. Y/AS
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
100416	A0101A	JAB007A	1				
100416	A0101A	JAB007B	2				
300023	A0101B	A0121B	1				
100305	A0104B	A0333A	1				
100101	A0112B	A0127B	2				
100101	A0112B	A0221A	1				
100105	A0113B	B0831A	1				
300022	A0114B	A0234B	1				
300023	A0121B	A0101B	1				
100304	A0122B	A0312B	1				
100103	A0123B	A0623B	1				
100102	A0124B	A0624B	1				
100104	A0126B	B0815A	1				
100101	A0127B	A0112B	2				
100108	A0128B	B0123B	2				
100107	A0130B	B0709A	1				
101020	A0133B	JAB003A	1				
100417	A0134B	JAB014B	1				
100309	A0213B	A0323B	1				
100409	A0214B	A1012B	2				
100308	A0215B	A0325B	1				
200802	A0216A	B0104A	1				
300024	A0216B	A0231A	2				
200621	A0217A	B0633B	1				
200501	A0217B	B1026A	2				
200501	A0217B	B0121B	1				
100101	A0221A	A0112B	1				
200504	A0221B	B0532A	2				
100504	A0222A	A0532B	1				
100504	A0222A	B0123A	2				
300024	A0222B	A0234A	2				
200221	A0223A	B0117B	1				
200217	A0223B	B0203A	2				
200208	A0224A	B0224B	2				
200218	A0224B	B0232B	2				
200206	A0225A	B0122B	1				
200204	A0225B	B0116A	1				
200216	A0226A	B0225A	2				
200202	A0226B	B0121A	1				
200202	A0226B	B0116B	2				
200214	A0227A	B0226A	2				
200210	A0228A	B0226B	2				
200212	A0229A	B0225B	2				
200223	A0230A	B0233B	2				
300024	A0231A	A0216B	2				
300024	A0231A	A0234A	1				
200220	A0232A	B0232A	2				
300024	A0234A	A0222B	2				
300024	A0234A	A0231A	1				
300022	A0234B	A0114B	1				
100301	A0307B	B0928B	1				

TITLE Logic Wirewrap - Applicable to 60 Pin I/O				WL	DOCUMENT NO.	SHEET NO. 2	REV. J
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
100302	A0308B	B0927B	1				
100303	A0309B	A0826B	1				
100307	A0311B	B0804A	1				
100304	A0312B	A0122B	1				
100309	A0323B	A0213B	1				
100308	A0325B	A0215B	1				
200926	A0327B	B0812A	2				
100306	A0332A	B0805B	1				
100305	A0333A	A0104B	1				
100305	A0333A	B0822B	2				
100418	A0403B	A0903B	1				
100403	A0407A	A1015B	2				
100403	A0407A	B0530B	1				
200108	A0408A	B0102B	1				
100410	A0409A	JA8002B	1				
300007	A0409B	JA8109A	1				
200904	A0410A	B0903B	1				
100411	A0410B	B1015B	2				
100411	A0410B	B0514A	1				
100404	A0411B	A0707A	1				
100404	A0411B	JA8001A	2				
200209	A0412A	B0230A	1				
100405	A0412B	JA8013A	1				
100405	A0412B	A1027B	2				
200201	A0413A	JA8110B	1				
200201	A0413A	B0227B	2				
200203	A0413B	A0531B	2				
200203	A0413B	B0229A	1				
100402	A0414A	B0931B	1				
300001	A0414B	JA8108A	1				
100407	A0415B	A1023B	1				
101010	A0416B	A1021A	1				
101002	A0424B	A1021B	1				
200919	A0425B	B0817B	2				
100505	A0426A	A0525B	1				
100406	A0426B	B0324B	1				
100413	A0427A	B0513A	2				
100413	A0427A	JA8012A	1				
100412	A0428B	JA8011A	1				
100412	A0428B	B0513B	2				
200225	A0429A	B0204A	1				
200224	A0429B	B0204B	1				
100415	A0430A	JA8014A	1				
100415	A0430A	B0512A	2				
100804	A0430B	A0811A	1				
200104	A0431A	B0115A	1				
100414	A0431B	B0512B	2				
100414	A0431B	JA8011B	1				
200103	A0432A	B0115B	1				
100417	A0432B	A0932B	1				
201004	A0433A	A0523B	1				
300008	A0433A	A0811B	2				

TITLE Logic Wirewrap - Applicable to 60 Pin I/O				WL	DOCUMENT NO.	SHEET NO. 3	REV. J
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
300008	A0433A	JA8232B	1				
100502	A0503B	A0610B	1				
100501	A0504B	A0609B	1				
300003	A0507B	JA8107B	1				
300002	A0508B	JA8106B	1				
300004	A0521B	JA8105B	1				
300005	A0522B	JA8106A	1				
300008	A0523B	A0811B	1				
201004	A0523B	A0433A	1				
201004	A0523B	A0811B	2				
200222	A0524B	B0202B	1				
100505	A0525B	A0426A	1				
200211	A0527B	A0824A	2				
100403	A0528B	B0707B	1				
100503	A0530B	A0622B	1				
200203	A0531B	A0612B	1				
200203	A0531B	A0413B	2				
100504	A0532B	A0222A	1				
300013	A0601A	JA8101A	1				
300019	A0601B	JA8103B	1				
200219	A0603B	B0233A	1				
200215	A0604B	B0231B	1				
100501	A0609B	A0504B	1				
100502	A0610B	A0503B	1				
200203	A0612B	A0824B	2				
200203	A0612B	A0531B	1				
200211	A0613B	A0824A	1				
200211	A0613B	B0231A	2				
100503	A0622B	A0530B	1				
100103	A0623B	A0123B	1				
100102	A0624B	A0124B	1				
100601	A0626B	B0331B	1				
100602	A0627B	B0331A	1				
300021	A0633B	JA8113B	1				
300020	A0634B	JA8111B	1				
300014	A0701A	JA8114A	1				
200918	A0702A	B0931A	1				
100404	A0707A	A0411B	1				
100404	A0707A	B0933B	2				
200922	A0707B	B0929B	1				
200923	A0708A	B0912B	1				
200911	A0710A	B0913A	1				
200610	A0711B	B0602A	1				
200612	A0712B	B0603A	1				
200613	A0713A	B0604A	1				
200616	A0713B	B0610A	1				
200617	A0715A	B0609B	1				
100809	A0715B	A0826A	2				
200619	A0716A	B0611B	1				
200902	A0716B	A0923B	2				
200618	A0717A	B0609A	1				
200907	A0717B	B0916A	1				

TITLE Logic Wirewrap - Applicable to 60 Pin I/O				WL	DOCUMENT NO.	SHEET NO. 4	REV. J
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
200901	A0721B	A0922B	2				
200905	A0722B	B0916B	1				
100A08	A0723B	A0809A	1				
200611	A0725B	B0602B	1				
100701	A0726B	A0928B	1				
200608	A0727A	B0604B	1				
100703	A0727B	A0808B	1				
100902	A0728B	A0912B	1				
100702	A0730B	A0802A	1				
300015	A0A01A	JA8107A	1				
100702	A0A02A	A0730B	1				
100801	A0808A	B0816A	1				
100703	A0A08B	A0727B	1				
100808	A0A09A	A0723B	1				
100802	A0A09B	B0810A	1				
200924	A0A10B	B0906B	2				
100A04	A0A11A	A0430B	1				
300008	A0A11B	A0523B	1				
201004	A0A11B	B1008A	1				
201004	A0A11B	A0523B	2				
300008	A0A11B	A0433A	2				
200908	A0A12A	B0914A	2				
100A07	A0A12B	B0905A	1				
200910	A0A13A	B0922A	1				
200913	A0A13B	B0930A	1				
200804	A0A14B	B0810B	1				
200903	A0A16A	B0904B	1				
200207	A0A21A	B0229B	1				
100A06	A0A22A	A0927A	1				
200205	A0A22B	B0228B	1				
100A05	A0A23A	B0A28B	1				
200906	A0A23B	B0906A	1				
200211	A0A24A	A0613B	1				
200211	A0A24A	A0527B	2				
200203	A0A24B	A0612B	2				
100A03	A0A25A	JA8104B	1				
200925	A0A25B	B0926A	1				
100A09	A0A26A	A0715B	2				
100A09	A0A26A	A0906A	1				
100303	A0A26B	A0309B	1				
200912	A0A32A	B0903A	2				
100901	A0A33A	A0924B	1				
101011	A0902A	A1002B	2				
101011	A0902B	A1002B	1				
100418	A0903A	A0903B	2				
100418	A0903A	A0904A	1				
100418	A0903B	A0403B	1				
100418	A0903B	A0903A	2				
10041A	A0904A	A0904B	2				
10041B	A0904A	A0903A	1				
100418	A0904B	A0904A	2				
100A09	A0906A	A0826A	1				

TITLE Logic Wirewrap - Applicable to 60 Pin I/O				WL	DOCUMENT NO.	SHEET NO. 5	REV. J/AS
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
100902	A0912B	A0728B	1				
200922	A0915B	B0925A	1				
200921	A0916B	B0921B	2				
200901	A0922B	A0721B	2				
200901	A0922B	B0908A	1				
200902	A0923B	B0907A	1				
200902	A0923B	A0716B	2				
100901	A0924B	A0833A	1				
100901	A0924B	B0915A	2				
200926	A0925B	B0913B	2				
200609	A0926B	B0617B	1				
100806	A0927A	A0822A	1				
200909	A0927B	B0930B	1				
100701	A0928B	A0726B	1				
300018	A0931A	A0932A	1				
300018	A0931A	A0931B	2				
300018	A0931B	A0931A	2				
300018	A0932A	A1032B	2				
300018	A0932A	A0931A	1				
300018	A0932B	JA8114B	2				
100417	A0932B	A0432B	1				
101012	A0933A	A1033B	2				
101012	A0933B	A1033B	1				
300006	A1001A	JA8105A	1				
101005	A1002A	JA8113A	1				
101011	A1002B	A0902A	2				
101011	A1002B	A0902B	1				
101009	A1003A	JA8230B	1				
101009	A1003A	JA8229B	1				
101009	A1003A	JA8330B	2				
101009	A1003A	JA8329B	2				
101008	A1003B	JA8229A	1				
101008	A1003B	JA8301A	2				
101008	A1003B	JA8201A	1				
101008	A1003B	JA8329A	2				
101007	A1004B	JA8331A	2				
101007	A1004B	JA8231A	1				
101007	A1004B	JA8330A	2				
101007	A1004B	JA8230A	1				
100407	A1005B	A1023B	2				
	A1009A	JA8230A	1				
	A1009B	JA8230B	1				
100404	A1012A	JA8001A	1				
100409	A1012B	JA8009B	1				
100409	A1012B	A0214B	2				
101006	A1013A	B0532B	1				
101004	A1014B	B0912A	1				
	A1014B	B0802A	1				
100403	A1015B	B1016A	1				
100403	A1015B	A0407A	2				
101003	A1017A	B0923B	1				
200921	A1017B	B0804B	2				
101010	A1021A	A0416B	1				
101002	A1021B	A0424B	1				
101001	A1022A	B0926B	1				
				Used on BK5C1E/F only			
				Used on BK5C1E/F only			
				Not used on BK5C1E/F only			
				Used on BK5C1E/F only			

TITLE Logic Wirewrap - Applicable to 60 Pin I/O				WL	DOCUMENT NO.	SHEET NO. 6	REV. J
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
100407	A1023B	A1005R	2				
100407	A1023B	A0415B	1				
101015	A1026A	JA8006A	1				
100408	A1026B	JA8005A	1				
101018	A1027A	JA8010A	1				
100405	A1027B	A0412B	2				
101013	A1028A	JA8005R	1				
101017	A1028B	JA8003R	1				
101014	A1029A	JA8006B	1				
101016	A1029B	JA8004B	1				
200927	A1030B	JA8004A	2				
300018	A1032B	A0932A	2				
300018	A1032B	JA8114B	1				
101012	A1033B	A0933A	2				
101012	A1033B	A0933R	1				
101019	A1034A	JA8010B	1				
200108	R0102B	A0408A	1				
200211	R0103A	B0726R	2				
200211	R0103A	B0231A	1				
200802	B0104A	B0304A	2				
200802	B0104A	A0216A	1				
200801	R0104B	B0304B	2				
200114	R0105A	JA8226A	1				
200114	R0105A	JA8225A	1				
200113	R0105B	JA8225B	1				
200113	R0105R	JA8226B	1				
200112	R0106A	JA8218A	1				
200112	R0106A	JA8219A	1				
200111	B0106B	JA8219B	1				
200111	B0106B	JA8218B	1				
200622	R0107A	B0307A	2				
200915	R0107B	B0307B	2				
200118	R0108A	JA8216A	1				
200118	R0108A	JA8217A	1				
200117	R0108B	JA8217B	1				
200117	R0108B	JA8216B	1				
200116	R0109A	JA8215A	1				
200116	R0109A	JA8216A	1				
200115	B0109B	JA8216B	1				
200115	R0109B	JA8215B	1				
200102	R0110A	B0521A	1				
200101	R0110B	R0516A	1				
200132	R0111A	JA8239A	1				
200132	R0111A	JA8239B	1				
200131	R0111B	JA8239B	1				
200131	R0111B	JA8240A	1				
200134	R0112A	JA8238B	1				
200133	R0112B	JA8238A	1				
200136	R0113A	JA8227B	1				
200136	R0113A	JA8226B	1				
200135	R0113B	JA8226A	1				
200135	R0113B	JA8227A	1				

TITLE Logic Wirewrap - Applicable to 60 Pin I/O				WL	DOCUMENT NO.	SHEET NO. 7	REV. J
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
200138	B0114A	JA8228B	1				
200138	B0114A	JA8227B	1				
200137	B0114B	JA8228A	1				
200137	B0114B	JA8227A	1				
200104	B0115A	A0431A	1				
200103	B0115B	A0432A	1				
200204	B0116A	A0225B	1				
200204	B0116A	B0227A	2				
200202	B0116B	A0226B	2				
200924	B0117A	B0626A	1				
200221	B0117B	B0202A	2				
200221	B0117B	A0223A	1				
200202	B0121A	A0226B	1				
200202	B0121A	B0224A	2				
200501	B0121B	B0203B	2				
200501	B0121B	A0217B	1				
200110	B0122A	B0134A	1				
200206	B0122B	B0228A	2				
200206	B0122B	A0225A	1				
100504	B0123A	B0323A	1				
100504	B0123A	A0222A	2				
100108	B0123B	A0128B	2				
100101	B0123B	B0323B	1				
200912	B0124A	B0324A	1				
200912	B0124A	B0632A	2				
100406	B0124B	B0324B	2				
200122	B0125A	JA8219A	1				
200122	B0125A	JA8220A	1				
200121	B0125B	JA8219B	1				
200121	B0125B	JA8220B	1				
200120	B0126A	JA8217A	1				
200120	B0126A	JA8218A	1				
200119	B0126B	JA8219B	1				
200119	B0126B	JA8217B	1				
200124	B0127A	JA8220A	1				
200124	B0127A	JA8221A	1				
200123	B0127B	JA8220B	1				
200123	B0127B	JA8221B	1				
200126	B0128A	JA8234A	1				
200126	B0128A	JA8235B	1				
200125	B0128B	JA8233B	1				
200125	B0128B	JA8235A	1				
200130	B0129A	JA8237B	1				
200130	B0129A	JA8237A	1				
200129	B0129B	JA8237A	1				
200129	B0129B	JA8236B	1				
200128	B0130A	JA8235A	1				
200128	B0130A	JA8236A	1				
200127	B0130B	JA8235B	1				
200127	B0130B	JA8236B	1				
100602	B0131A	B0331A	2				
100601	B0131B	B0331B	2				

TITLE Logic Wirewrap - Applicable to 60 Pin I/O				WL	DOCUMENT NO.	SHEET NO. 8	REV. J
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
200105	R0132A	JA8102A	1				
200107	R0132B	JA8104A	1				
200106	R0133B	JA8103A	1				
300012	R0134A	JA8201B	2				
200110	R0134A	B0122A	1				
200221	R0202A	B0117B	2				
200221	R0202A	B0402A	1				
200222	R0202B	A0524B	1				
200217	R0203A	A0223B	2				
200217	R0203A	B0403A	1				
200501	R0203B	B0533A	1				
200501	R0203B	B0121B	2				
200225	R0204A	A0429A	1				
200224	R0204B	A0429B	1				
200257	R0205A	JA8224B	1				
200257	R0205A	JA8223B	1				
200256	R0205B	JA8223A	1				
200256	R0205B	JA8224A	1				
200255	R0206A	JA8225B	1				
200255	R0206A	JA8224B	1				
200254	R0206B	JA8224A	1				
200254	R0206B	JA8225A	1				
200253	R0207A	JA8204B	1				
200253	R0207A	JA8203B	1				
200252	R0207B	JA8203A	1				
200252	R0207B	JA8204A	1				
200251	R0208A	JA8214B	1				
200251	R0208A	JA8215B	1				
200250	R0208B	JA8214A	1				
200250	R0208B	JA8215A	1				
200245	R0209A	JA8213B	1				
200245	R0209A	JA8212B	1				
200244	R0209B	JA8213A	1				
200244	R0209B	JA8212A	1				
200243	R0210A	JA8214B	1				
200243	R0210A	JA8213B	1				
200243	R0210A	B1022A	2				
200242	R0210B	B1022B	2				
200242	R0210B	JA8213A	1				
200242	R0210B	JA8214A	1				
200249	R0211A	JA8202B	1				
200249	R0211A	JA8203B	1				
200248	R0211B	JA8202A	1				
200248	R0211B	JA8203A	1				
200247	R0212A	JA8201B	1				
200247	R0212A	JA8202B	1				
200246	R0212B	JA8201A	1				
200246	R0212B	JA8202A	1				
200241	R0213A	JA8211B	1				
200241	R0213A	JA8212B	1				
200240	R0213B	JA8212A	1				
200240	R0213B	JA8211A	1				

TITLE Logic Wirewrap - Applicable to 60 Pin I/O				WL	DOCUMENT NO.	SHEET NO. 9	REV. J
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
200239	R0214A	JA8210B	1				
200239	R0214A	JA8211B	1				
200238	R0214B	JA8211A	1				
200238	R0214B	JA8210A	1				
200237	R0215A	JA8210B	1				
200237	R0215A	JA8209B	1				
200236	R0215B	JA8209A	1				
200236	R0215B	JA8210A	1				
200235	R0216A	JA8208B	1				
200235	R0216A	JA8209B	1				
200234	R0216B	JA8209A	1				
200234	R0216B	JA8208A	1				
200233	R0217A	JA8207B	1				
200233	R0217A	JA8208B	1				
200232	R0217B	JA8207A	1				
200232	R0217B	JA8208A	1				
200231	R0221A	JA8206B	1				
200231	R0221A	JA8207B	1				
200230	R0221B	JA8207A	1				
200230	R0221B	JA8206A	1				
200229	R0222A	JA8206B	1				
200229	R0222A	JA8205B	1				
200228	R0222B	JA8206A	1				
200228	R0222B	JA8205A	1				
200227	R0223A	JA8205B	1				
200227	R0223A	JA8204B	1				
200226	R0223B	JA8204A	1				
200226	R0223B	JA8205A	1				
200202	R0224A	B0424A	1				
200202	R0224A	B0121A	2				
200208	R0224B	B0424B	1				
200208	R0224B	A0224A	2				
200216	R0225A	A0226A	2				
200216	R0225A	B0425A	1				
200212	R0225B	A0229A	2				
200212	R0225B	B0425B	1				
200214	R0226A	A0227A	2				
200214	R0226A	B0426A	1				
200210	R0226B	B0426B	1				
200210	R0226B	A0228A	2				
200204	R0227A	B0116A	2				
200204	R0227A	B0427A	1				
200201	R0227B	B0616B	1				
200201	R0227B	A0413A	2				
200206	R0228A	B0428A	1				
200206	R0228A	B0122B	2				
200205	R0228B	A0822B	1				
200203	R0229A	A0413B	1				
200207	R0229B	A0821A	1				
200209	R0230A	A0412A	1				
200213	R0230B	B0812B	1				
200211	R0231A	A0613B	2				

TITLE Logic Wirewrap - Applicable to 60 Pin I/O				WL	DOCUMENT NO.	SHEET NO. 10	REV. J
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
200211	R0231A	B0103A	1				
200215	B0231B	A0604B	1				
200220	R0232A	A0232A	2				
200220	B0232A	B0432A	1				
200218	B0232B	A0224B	2				
200218	B0232B	B0432B	1				
200219	R0233A	A0603B	1				
200223	R0233B	B0433B	1				
200223	B0233B	A0230A	2				
300025	R0234A	JA8333A	2				
300025	B0234A	JA8233A	1				
200802	B0304A	B0813B	1				
200802	R0304A	B0104A	2				
200801	R0304B	B0104B	2				
200801	R0304B	B0821B	1				
200308	B0305A	JA8325A	1				
200308	R0305A	JA8326A	1				
200307	B0305B	JA8326B	1				
200307	B0305B	JA8325B	1				
200306	R0306A	JA8318A	1				
200306	R0306A	JA8319A	1				
200305	R0306B	JA8319B	1				
200305	B0306B	JA8318B	1				
200622	R0307A	B0107A	2				
200622	R0307A	B0614B	1				
200915	R0307B	B0107B	2				
200915	R0307B	B0911A	1				
200312	R0308A	JA8316A	1				
200312	R0308A	JA8317A	1				
200311	R0308B	JA8317B	1				
200311	R0308B	JA8316B	1				
200310	R0309A	JA8315A	1				
200310	R0309A	JA8316A	1				
200309	R0309B	JA8316B	1				
200309	R0309B	JA8315B	1				
200302	R0310A	B0517B	1				
200301	R0310B	B0515B	1				
200326	R0311A	JA8339B	1				
200326	R0311A	JA8339A	1				
200325	R0311B	JA8340A	1				
200325	R0311B	JA8339B	1				
200328	R0312A	JA8339B	1				
200327	R0312B	JA8338A	1				
200330	R0313A	JA8327B	1				
200330	R0313A	JA8326B	1				
200329	R0313B	JA8327A	1				
200329	R0313B	JA8326A	1				
200332	R0314A	JA8327B	1				
200332	R0314A	JA8328B	1				
200331	R0314B	JA8327A	1				
200331	R0314B	JA8328A	1				
200304	R0315A	B0511A	1				

TITLE Logic Wirewrap - Applicable to 60 Pin I/O				WL	DOCUMENT NO.	SHEET NO. 11	REV. J
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
200303	R0315B	B0510B	1				
200504	R0321B	B0403B	2				
200504	R0321B	B1030A	1				
100504	B0323A	B0123A	1				
100101	R0323B	B0123B	1				
200912	B0324A	B0605B	2				
200912	B0324A	B0124A	1				
100406	R0324B	B0124B	2				
100406	B0324B	A0426B	1				
200316	B0325A	JAB319A	1				
200316	B0325A	JAB320A	1				
200315	B0325B	JAB319B	1				
200315	B0325B	JAB320B	1				
200314	B0326A	JAB317A	1				
200314	B0326A	JAB318A	1				
200313	B0326B	JAB317B	1				
200313	B0326B	JAB318B	1				
200318	R0327A	JAB320A	1				
200318	R0327A	JAB321A	1				
200317	R0327B	JAB320B	1				
200317	R0327B	JAB321B	1				
200320	B0328A	JAB335B	1				
200320	B0328A	JAB334A	1				
200319	B0328B	JAB335A	1				
200319	B0328B	JAB333B	1				
200324	B0329A	JAB337B	1				
200324	B0329A	JAB337A	1				
200323	B0329B	JAB337A	1				
200323	B0329B	JAB336B	1				
200322	R0330A	JAB336A	1				
200322	R0330A	JAB335A	1				
200321	R0330B	JAB336B	1				
200321	R0330B	JAB335B	1				
100602	R0331A	B0131A	2				
100602	R0331A	A0627B	1				
100601	R0331B	B0131B	2				
100601	R0331B	A0626B	1				
300026	R0334A	JAB334B	2				
300026	R0334A	JAB234B	1				
200221	R0402A	B0202A	1				
200401	B0402B	B0732B	1				
200217	R0403A	B0203A	1				
200217	R0403A	B0531A	2				
200504	R0403B	B0321B	2				
200504	R0403B	B0532A	1				
200403	R0404A	B0503B	1				
200402	R0404B	B0510A	1				
200435	R0405A	JAB323B	1				
200435	R0405A	JAB324B	1				
200434	R0405B	JAB323A	1				
200434	R0405B	JAB324A	1				
200433	R0406A	JAB325B	1				

TITLE Logic Wirewrap - Applicable to 60 Pin I/O		WL	DOCUMENT NO.	SHEET NO. 12	REV. J
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES	
200433	R0406A	JA83248	1		
200432	R04068	JA8325A	1		
200432	R04068	JA8324A	1		
200431	R0407A	JA83038	1		
200431	R0407A	JA8304R	1		
200430	R04078	JA8303A	1		
200430	R04078	JA8304A	1		
200429	R0408A	JA8314R	1		
200429	R0408A	JA8315R	1		
200428	R04088	JA8314A	1		
200428	R04088	JA8315A	1		
200423	R0409A	JA8312R	1		
200423	R0409A	JA8313R	1		
200422	R04098	JA8312A	1		
200422	R04098	JA8313A	1		
200421	R0410A	JA8314R	1		
200421	R0410A	B1023A	2		
200421	R0410A	JA8313R	1		
200420	R0410R	B1023R	2		
200420	R0410R	JA8314A	1		
200420	R0410R	JA8313A	1		
200427	R0411A	JA8302R	1		
200427	R0411A	JA8303R	1		
200426	R0411R	JA8302A	1		
200426	R0411R	JA8303A	1		
200425	R0412A	JA8302R	1		
200425	R0412A	JA8301R	1		
200424	R0412R	JA8302A	1		
200424	R0412R	JA8301A	1		
200419	R0413A	JA8311R	1		
200419	R0413A	JA8312R	1		
200418	R0413R	JA8312A	1		
200418	R0413R	JA8311A	1		
200417	R0414A	JA8310R	1		
200417	R0414A	JA8311R	1		
200416	R0414R	JA8311A	1		
200416	R0414R	JA8310A	1		
200415	R0415A	JA8309R	1		
200415	R0415A	JA8310R	1		
200414	R0415R	JA8310A	1		
200414	R0415R	JA8309A	1		
200413	R0416A	JA8309R	1		
200413	R0416A	JA8308R	1		
200412	R0416R	JA8308A	1		
200412	R0416R	JA8309A	1		
200411	R0417A	JA8308R	1		
200411	R0417A	JA8307R	1		
200410	R0417R	JA8308A	1		
200410	R0417R	JA8307A	1		
200409	R0421A	JA8306R	1		
200409	R0421A	JA8307R	1		
200408	R0421R	JA8306A	1		

TITLE Logic Wirewrap - Applicable to 60 Pin I/O				WL	DOCUMENT NO.	SHEET NO. 13	REV. Y
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
200408	R0421B	JA8307A	1				
200407	R0422A	JA8306B	1				
200407	R0422A	JA8305B	1				
200406	R0422B	JA8305A	1				
200406	R0422B	JA8306A	1				
200405	R0423A	JA8305B	1				
200405	R0423A	JA8304B	1				
200404	R0423B	JA8304A	1				
200404	R0423B	JA8305A	1				
200202	R0424A	B0224A	1				
200202	R0424A	B0631A	2				
200208	R0424B	B0628B	2				
200208	R0424B	B0224B	1				
200216	R0425A	B0225A	1				
200216	R0425A	B0626B	2				
200212	R0425B	B0624A	2				
200212	R0425B	B0225B	1				
200214	R0426A	B0226A	1				
200214	R0426A	B0622B	2				
200210	R0426B	B0226B	1				
200210	R0426B	B0629B	2				
200204	R0427A	B0633A	2				
200204	R0427A	B0227A	1				
200206	R0428A	B0228A	1				
200206	R0428A	B0630A	2				
200220	R0432A	B0232A	1				
200220	R0432A	B0606B	2				
200218	R0432B	B0621A	2				
200218	R0432B	B0232B	1				
200223	R0433B	B0233B	1				
200223	R0433B	B0502A	2				
300027	R0434A	JA8336A	2				
300027	R0434A	JA8236A	1				
200223	R0502A	B1009A	1				
200223	R0502A	B0433B	2				
200519	R0502B	JA8234A	1				
200519	R0502B	B1025B	2				
200403	R0503B	B0404A	1				
200503	R0505A	JA8221A	1				
200503	R0505A	JA8222A	1				
200502	R0505B	JA8221B	1				
200502	R0505B	JA8222B	1				
200914	R0506A	B0932A	2				
201003	R0506B	B1027A	2				
201020	B0507A	B1010A	1				
200402	R0510A	B0404B	1				
200303	R0510B	B0315B	1				
200304	R0511A	B0315A	1				
100415	R0512A	A0430A	2				
100414	R0512B	A0431B	2				
100413	R0513A	A0427A	2				
100412	R0513B	A0428B	2				
100411	R0514A	A0410B	1				

TITLE Logic Wirewrap - Applicable to 60 Pin I/O				WL	DOCUMENT NO.	SHEET NO. 14	REV. J
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
100411	R0514A	JA8244B	2				
200523	R0515A	B1030B	1				
200301	R0515B	B0310B	1				
200101	R0516A	B0110A	1				
200515	R0516B	B0723B	1				
200522	R0517A	B1027B	1				
200302	R0517B	B0310A	1				
200102	R0521A	B0110A	1				
201001	R0521B	B1016B	1				
200516	R0522A	B0710B	1				
201002	R0523B	B1002A	1				
200514	R0524A	JA8323B	1				
200514	B0524A	JA8322B	1				
200513	R0524B	JA8323A	1				
200513	B0524B	JA8322A	1				
200508	R0525A	JA8322A	1				
200508	R0525A	JA8321A	1				
200507	B0525B	JA8321B	1				
200507	R0525B	JA8322B	1				
200506	R0526A	JA8328A	1				
200506	R0526A	JA8329A	1				
200505	R0526B	JA8328B	1				
200505	R0526B	JA8329B	1				
200512	R0527A	JA8342A	1				
200512	B0527A	JA8341A	1				
200511	R0527B	JA8341B	1				
200511	R0527B	JA8342B	1				
200510	R0529A	JA8340A	1				
200510	R0529A	JA8341B	1				
200509	R0529B	JA8340B	1				
200509	B0529B	JA8341A	1				
200703	R0530A	B0709B	1				
100403	R0530B	A0407A	1				
100403	R0530B	B0707B	2				
200217	R0531A	B0425A	1				
200217	R0531A	B0403A	2				
200521	R0531B	B1010B	1				
200504	R0532A	B0403B	1				
200504	R0532A	A0221B	2				
101006	R0532B	JA8234B	2				
101006	R0532B	B1008B	2				
101006	R0532B	A1013A	1				
200501	R0533A	B0203B	1				
200501	R0533A	JA8233B	2				
200520	R0533B	B0708B	1				
300028	R0534A	JA8337B	2				
300028	R0534A	JA8237B	1				
200610	R0602A	A0711B	1				
200611	B0602B	A0725B	1				
200612	B0603A	A0712B	1				
200908	R0603B	R0914A	1				
200613	B0604A	A0713A	1				

TITLE Logic Wirewrap - Applicable to 60 Pin I/O				WL	DOCUMENT NO.	SHEET NO. 15	REV. J
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
200608	B0604B	A0727A	1				
200920	B0605A	B0910B	1				
200912	B0605B	B0903A	1				
200912	B0605B	B0324A	2				
200614	B0606A	B0917B	1				
200220	B0606B	B0432A	2				
200606	B0607A	B0827B	1				
200615	B0607B	B0922B	1				
200618	B0609A	A0717A	1				
200617	B0609B	A0715A	1				
200616	B0610A	A0713B	1				
200619	B0611B	A0716A	1				
200601	B0613A	JAB110A	1				
200604	B0613B	B0904A	1				
200607	B0614A	B0914B	1				
200622	B0614B	B0307A	1				
100404	B0615A	B0933B	1				
200620	B0616A	JAB101B	1				
200201	B0616B	B0712B	2				
200201	B0616B	B0227B	1				
200609	B0617B	A0926B	1				
200218	B0621A	B0432B	2				
200218	B0621A	B0832A	1				
200214	B0622B	B0826B	1				
200214	B0622B	B0426A	2				
200602	B0623B	JAB111A	1				
200212	B0624A	B0826A	1				
200212	B0624A	B0425B	2				
200603	B0624B	JAB112A	1				
200217	B0625A	B0833B	2				
200217	B0625A	B0531A	1				
200916	B0625B	B0915B	1				
200924	B0626A	B0117A	1				
200924	B0626A	B0817A	2				
200216	B0626B	B0811B	1				
200216	B0626B	B0425A	2				
200208	B0628B	B0823B	1				
200208	B0628B	B0424B	2				
200210	B0629B	B0426B	2				
200210	B0629B	B0822A	1				
200206	B0630A	B0823A	1				
200206	B0630A	B0428A	2				
200202	B0631A	B0424A	2				
200202	B0631A	B0832B	1				
200912	B0632A	B0124A	2				
200605	B0632B	B0910A	1				
200204	B0633A	B0427A	2				
200204	B0633A	B0825A	1				
200621	B0633B	A0217A	1				
300029	B0634A	JAB339A	2				
300029	B0634A	JAB239A	1				
300010	B0701B	JAB232A	1				

TITLE Logic Wirewrap - Applicable to 60 Pin I/O				WL	DOCUMENT NO.	SHEET NO. 16	REV. J/AS
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
100403	B0707B	B0530B	2				
100403	B0707B	A0528B	1				
200520	B0708B	B0533B	1				
100107	B0709A	A0130B	1				
200703	B0709B	B0530A	1				
200516	B0710B	B0522A	1				
200201	B0712B	B0616B	2				
200515	B0723B	B0516B	1				
200211	B0726B	B0103A	2				
200701	B0729A	JA8108B	1				
200702	B0729B	JA8109B	1				
200401	B0732B	B0402B	1				
300030	B0734A	JA8340B	2				
300030	B0734A	JA8240B	1				
300009	B0734B	JA8233A	1				
200812	B0801A	B0811A	1				
	B0802A	A1014B	1	Used on BK5C1E/F only			
100307	B0804A	A0311B	1				
	B0802B	B0912A	1	Used on BK5C1E/F only			
200921	B0804B	B0921B	1				
200921	B0804B	A1017B	2				
200813	B0805A	B0814A	1	Not used on BK5C1E/F only			
100306	B0805B	A0332A	1				
200807	B0806A	B0911B	1				
200808	B0806B	B0924A	1				
200805	B0807A	B0932B	1				
200810	B0807B	B0925B	1				
100802	B0810A	A0809B	1				
200804	B0810B	A0814B	1				
200812	B0811A	B0801A	1				
200216	B0811B	B0626B	1				
200926	B0812A	A0327B	2				
200926	B0812A	B0913B	1				
200213	B0812B	B0230B	1				
200213	B0812B	B0927A	2				
200814	B0813A	B0815B	2	Not used on BK5C1E/F only			
200802	B0813B	B0304A	1				
200813	B0814A	B0814B	2	Not used on BK5C1E/F only			
200813	B0814A	B0805A	1	Not used on BK5C1E/F only			
200813	B0814B	B0825B	1	Not used on BK5C1E/F only			
200813	B0814B	B0814A	2	Not used on BK5C1E/F only			
100104	B0815A	A0126B	1				
200814	B0815B	B0813A	2	Not used on BK5C1E/F only			
200814	B0815B	B0824B	1	Not used on BK5C1E/F only			
100801	B0816A	A0808A	1				
200806	B0816B	B0902A	1				
200924	B0817A	B0626A	2				
200924	B0817A	B0906B	1				
200919	B0817B	B0907B	1				
200919	B0817B	A0425B	2				
200809	B0821A	B0917A	1				
200801	B0821B	B0304B	1				
200210	B0822A	B0629B	1				
100305	B0822B	A0333A	2				

TITLE Logic Wirewrap - Applicable to 60 Pin I/O				WL	DOCUMENT NO.	SHEET NO. 17	REV. J/AS
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
200206	B0A23A	B0630A	1				
200208	B0B23B	B0628B	1				
200814	B0A24A	B0B24B	2	Not used on BK5C1E/F only			
200814	B0A24A	B0B34A	1	Not used on BK5C1E/F only			
200814	B0A24B	B0B24A	2	Not used on BK5C1E/F only			
200814	B0B24B	B0B15B	1	Not used on BK5C1E/F only			
200204	B0A25A	B0633A	1				
200813	B0A25B	B0A29A	2	Not used on BK5C1E/F only			
200813	B0A25B	B0B14B	1	Not used on BK5C1E/F only			
200212	B0A26A	B0624A	1				
200214	B0A26B	B0622B	1				
200803	B0A27A	B0933A	1				
200606	B0B27B	B0607A	1				
200606	B0A27B	B0902B	2				
100805	B0A28B	A0A23A	1				
200813	B0A29A	B0A25B	2	Not used on BK5C1E/F only			
200813	B0B29A	B0B29B	1	Not used on BK5C1E/F only			
200813	B0A29B	B0A30A	2	Not used on BK5C1E/F only			
200813	B0A29B	B0A29A	1	Not used on BK5C1E/F only			
200813	B0B30A	B0B29B	2	Not used on BK5C1E/F only			
100105	B0A31A	A0113B	1				
200218	B0B32A	B0621A	1				
200202	B0B32B	B0631A	1				
200811	B0B33A	B0929A	1				
200217	B0B33B	B1003A	1				
200217	B0B33B	B0625A	2				
200814	B0B34A	JA8243A	2				
200814	B0B34A	B0B24A	1				
200806	B0902A	B0B16B	1				
200606	B0902B	B0905B	1				
200606	B0902B	B0B27B	2				
200912	B0903A	A0A32A	2				
200912	B0903A	B0605B	1				
200904	B0903B	A0410A	1				
200604	B0904A	B0613B	1				
200903	B0904B	A0B16A	1				
100807	B0905A	A0B12B	1				
200606	B0905B	B0902B	1				
200906	B0906A	A0A23B	1				
200924	B0906B	A0A10B	2				
200924	B0906B	B0B17A	1				
200902	B0907A	A0923B	1				
200919	B0907B	B0B17B	1				
200901	B0908A	A0922B	1				
200907	B0909A	B0916A	2				
200605	B0910A	B0A32B	1				
200920	B0910B	B0605A	1				
200915	B0911A	B0307B	1				
200807	B0911B	B0A06A	1				
	B0912A	B0B02B	1	Used on BK5C1E/F only			
101004	B0912A	A1014B	1	Not used on BK5C1E/F only			
200923	B0912B	A0708A	1				
200911	B0913A	A0710A	1				

TITLE Logic Wirewrap - Applicable to 60 Pin I/O				WL	DOCUMENT NO.	SHEET NO. 18	REV. Y
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
200926	R0913B	A0925B	2				
200926	R0913B	B0812A	1				
200908	R0914A	B0603B	1				
200908	R0914A	A0812A	2				
200607	R0914B	B0614A	1				
100901	R0915A	A0924B	2				
200916	R0915B	B0625B	1				
200907	R0916A	B0909A	2				
200907	R0916A	A0717B	1				
200905	R0916B	A0722B	1				
200809	R0917A	B0821A	1				
200614	R0917B	B0606A	1				
200921	R0921B	A0916B	2				
200921	R0921B	B0804B	1				
200910	R0922A	A0813A	1				
200615	R0922B	B0607B	1				
200917	R0923A	B0934A	1				
101003	R0923B	A1017A	1				
200808	R0924A	B0806B	1				
200927	R0924B	JAB004A	1				
200922	R0925A	A0915B	1				
200810	R0925B	B0807B	1				
200925	R0926A	A0825B	1				
101001	R0926B	A1022A	1				
200213	R0927A	B0812B	2				
100302	R0927B	A0308B	1				
100301	R0928B	A0307B	1				
200811	R0929A	B0833A	1				
200922	R0929B	A0707B	1				
200913	R0930A	A0813B	1				
200909	R0930B	A0927B	1				
200918	R0931A	A0702A	1				
100402	R0931B	A0414A	1				
200914	R0932A	B1009B	1				
200914	R0932A	B0506A	2				
200805	R0932B	B0807A	1				
200803	R0933A	B0827A	1				
100404	R0933B	A0707A	2				
100404	R0933B	B0615A	1				
200917	R0934A	JAB343A	2				
200917	R0934A	B0923A	1				
201002	B1002A	B0523B	1				
200217	B1003A	B0833B	1				
201005	B1007A	JAB222B	1				
201006	B1007B	JAB222A	1				
201004	B1008A	A0811B	1				
101006	B1008B	B0532B	2				
200223	B1009A	B0502A	1				
200914	B1009B	B0932A	1				
201020	B1010A	B0507A	1				
200521	B1010B	B0531B	1				
100411	B1015B	A0410B	2				
100403	B1016A	A1015B	1				

TITLE Logic Wirewrap - Applicable to 60 Pin I/O				WL	DOCUMENT NO.	SHEET NO. 19	REV. J
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
201001	R1016B	B0521B	1				
200243	B1022A	B0210A	2				
200242	B1022B	B0210B	2				
200421	B1023A	B0410A	2				
200420	B1023B	B0410B	2				
200519	B1025B	B0502B	2				
200501	B1026A	A0217B	2				
201003	B1027A	B0506B	2				
201003	B1027A	JA8244A	1				
200522	B1027B	B0517A	1				
201008	B1028A	JA8242A	1				
201007	B1028B	JA8242B	1				
201010	B1029A	JA8241B	1				
201009	B1029B	JA8241A	1				
200504	B1030A	B0321B	1				
200523	B1030B	B0515A	1				
201012	B1031A	JA8228A	1				
201011	B1031B	JA8228B	1				
300031	B1034A	JA8244B	1				
300011	B1034A	JA8245B	1				
300031	B1034A	JA8344B	2				
100404	JA8001A	A1012A	1				
100404	JA8001A	A0411B	2				
100410	JA8002B	A0409A	1				
101020	JA8003A	A0133B	1				
101017	JA8003B	A1028B	1				
200927	JA8004A	A1030B	2				
200927	JA8004A	B0924B	1				
101016	JA8004B	A1029B	1				
100408	JA8005A	A1026B	1				
101013	JA8005B	A1028A	1				
101015	JA8006A	A1026A	1				
101014	JA8006B	A1029A	1				
100416	JA8007A	A0101A	1				
100416	JA8007B	A0101A	2				
300016	JA8008A	JA8102B	1				
300017	JA8008B	JA8112B	1				
100409	JA8009B	A1012B	1				
101018	JA8010A	A1027A	1				
101019	JA8010B	A1034A	1				
100412	JA8011A	A0428B	1				
100414	JA8011B	A0431B	1				
100413	JA8012A	A0427A	1				
100405	JA8013A	A0412B	1				
100415	JA8014A	A0430A	1				
100417	JA8014B	A0134B	1				
300013	JA8101A	A0601A	1				
200620	JA8101B	B0616A	1				
200105	JA8102A	B0132A	1				
300016	JA8102B	JA8008A	1				
200106	JA8103A	B0133B	1				
300019	JA8103B	A0601B	1				

TITLE Logic Wirewrap - Applicable to 60 Pin I/O		WL	DOCUMENT NO.	SHEET NO. 20	REV. J
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES	
200107	JAB104A	B0132B	1		
100803	JAB104B	A0825A	1		
300006	JAB105A	A1001A	1		
300004	JAB105B	A0521B	1		
300005	JAB106A	A0522B	1		
300002	JAB106B	A0508B	1		
300015	JAB107A	A0801A	1		
300003	JAB107B	A0507B	1		
300001	JAB108A	A0414B	1		
200701	JAB108B	B0729A	1		
300007	JAB109A	A0409B	1		
200702	JAB109B	B0729B	1		
200601	JAB110A	B0613A	1		
200201	JAB110B	A0413A	1		
200602	JAB111A	B0623B	1		
300020	JAB111B	A0634B	1		
200603	JAB112A	B0624B	1		
300017	JAB112B	JAB008B	1		
101005	JAB113A	A1002A	1		
300021	JAB113B	A0633B	1		
300014	JAB114A	A0701A	1		
300018	JAB114B	A1032B	1		
300018	JAB114B	A0932B	2		
101008	JAB201A	A1003B	1		
200246	JAB201A	B0212B	1		
200247	JAB201B	B0212A	1		
300012	JAB201B	B0134A	2		
200246	JAB202A	B0212B	1		
200248	JAB202A	B0211B	1		
200249	JAB202B	B0211A	1		
200247	JAB202B	B0212A	1		
200248	JAB203A	B0211B	1		
200252	JAB203A	B0207B	1		
200249	JAB203B	B0211A	1		
200253	JAB203B	B0207A	1		
200252	JAB204A	B0207B	1		
200226	JAB204A	B0223B	1		
200227	JAB204B	B0223A	1		
200253	JAB204B	B0207A	1		
200226	JAB205A	B0223B	1		
200228	JAB205A	B0222B	1		
200229	JAB205B	B0222A	1		
200227	JAB205B	B0223A	1		
200230	JAB206A	B0221B	1		
200228	JAB206A	B0222B	1		
200231	JAB206B	B0221A	1		
200229	JAB206B	B0222A	1		
200232	JAB207A	B0217B	1		
200230	JAB207A	B0221B	1		
200231	JAB207B	B0221A	1		
200233	JAB207B	B0217A	1		
200234	JAB208A	B0216B	1		

TITLE Logic Wirewrap - Applicable to 60 Pin I/O				WL	DOCUMENT NO.	SHEET NO. 21	REV. J
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
200232	JAB208A	B0217B	1				
200235	JAB208B	B0216A	1				
200233	JAB208B	B0217A	1				
200234	JAB209A	B0216B	1				
200236	JAB209A	B0215B	1				
200235	JAB209B	B0216A	1				
200237	JAB209B	B0215A	1				
200238	JAB210A	B0214B	1				
200236	JAB210A	B0215B	1				
200237	JAB210B	B0215A	1				
200239	JAB210B	B0214A	1				
200240	JAB211A	B0213B	1				
200238	JAB211A	B0214B	1				
200239	JAB211B	B0214A	1				
200241	JAB211B	B0213A	1				
200240	JAB212A	B0213B	1				
200244	JAB212A	B0209B	1				
200241	JAB212B	B0213A	1				
200245	JAB212B	B0209A	1				
200242	JAB213A	B0210B	1				
200244	JAB213A	B0209B	1				
200245	JAB213B	B0209A	1				
200243	JAB213B	B0210A	1				
200242	JAB214A	B0210B	1				
200250	JAB214A	B0208B	1				
200243	JAB214B	B0210A	1				
200251	JAB214B	B0208A	1				
200250	JAB215A	B0208B	1				
200116	JAB215A	B0109A	1				
200251	JAB215B	B0208A	1				
200115	JAB215B	B0109B	1				
200116	JAB216A	B0109A	1				
200118	JAB216A	B0109A	1				
200115	JAB216B	B0109B	1				
200117	JAB216B	B0108B	1				
200118	JAB217A	B0109A	1				
200120	JAB217A	B0126A	1				
200117	JAB217B	B0108B	1				
200119	JAB217B	B0126B	1				
200112	JAB218A	B0106A	1				
200120	JAB218A	B0126A	1				
200111	JAB218B	B0106B	1				
200119	JAB218B	B0126B	1				
200122	JAB219A	B0125A	1				
200112	JAB219A	B0106A	1				
200111	JAB219B	B0106B	1				
200121	JAB219B	B0125B	1				
200122	JAB220A	B0125A	1				
200124	JAB220A	B0127A	1				
200121	JAB220B	B0125B	1				
200123	JAB220B	B0127B	1				
200124	JAB221A	B0127A	1				

TITLE Logic Wirewrap - Applicable to 60 Pin I/O				WL	DOCUMENT NO.	SHEET NO. 22	REV. J/AS
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
200503	JA8221A	B0505A	1	Used on BK5C1E/F only Used on BK5C1E/F only			
200123	JA8221B	B0127B	1				
200502	JA8221B	B0505B	1				
201006	JA8222A	B1007B	1				
200503	JA8222A	B0505A	1				
201005	JA8222B	B1007A	1				
200502	JA8222B	B0505B	1				
200256	JA8223A	B0205B	1				
200257	JA8223B	B0205A	1				
200256	JA8224A	B0205B	1				
200254	JA8224A	B0206B	1				
200255	JA8224B	B0206A	1				
200257	JA8224B	B0205A	1				
200254	JA8225A	B0206B	1				
200114	JA8225A	B0105A	1				
200113	JA8225B	B0105B	1				
200255	JA8225B	B0206A	1				
200114	JA8226A	B0105A	1				
200135	JA8226A	B0113B	1				
200136	JA8226B	B0113A	1				
200113	JA8226B	B0105B	1				
200135	JA8227A	B0113B	1				
200137	JA8227A	B0114B	1				
200136	JA8227B	B0113A	1				
200138	JA8227B	B0114A	1				
200137	JA8228A	B0114B	1				
201012	JA8228A	B1031A	1				
200138	JA8228B	B0114A	1				
201011	JA8228B	B1031B	1				
101008	JA8229A	A1003B	1				
101009	JA8229B	A1003A	1				
101007	JA8230A	A1004B	1				
101009	JA8230B	A1003A	1				
	JA8230A	A1009A	1				
	JA8230B	A1009B	1				
101007	JA8231A	A1004B	1				
300010	JA8232A	B0701B	1				
300008	JA8232B	A0433A	1				
300009	JA8233A	B0734B	1				
300025	JA8233A	B0234A	1				
200125	JA8233B	B0128B	1				
200501	JA8233B	B0533A	2				
200126	JA8234A	B0128A	1				
200519	JA8234A	B0502B	1				
101006	JA8234B	B0532B	2				
300026	JA8234B	B0334A	1				
200128	JA8235A	B0130A	1				
200125	JA8235A	B0128B	1				
200127	JA8235B	B0130B	1				
200126	JA8235B	B0128A	1				
200128	JA8236A	B0130A	1				
300027	JA8236A	B0434A	1				
200129	JA8236B	B0129B	1				
200127	JA8236B	B0130B	1				

TITLE Logic Wirewrap - Applicable to 60 Pin I/O				WL	DOCUMENT NO.	SHEET NO. 23	REV. J
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
200130	JA8237A	B0129A	1				
200129	JA8237A	B0129B	1				
200130	JA8237B	B0129A	1				
300028	JA8237B	B0534A	1				
200133	JA8238A	B0112B	1				
200134	JA8238B	B0112A	1				
200132	JA8239A	B0111A	1				
300029	JA8239A	B0634A	1				
200131	JA8239B	B0111B	1				
200132	JA8239B	B0111A	1				
200131	JA8240A	B0111B	1				
300030	JA8240B	B0734A	1				
201009	JA8241A	B1029B	1				
201010	JA8241B	B1029A	1				
201008	JA8242A	B1028A	1				
201007	JA8242B	B1028B	1				
200814	JA8243A	B0834A	2				
201003	JA8244A	B1027A	1				
100411	JA8244B	B0514A	2				
300031	JA8244B	B1034A	1				
300011	JA8245B	B1034A	1				
101008	JA8301A	A1003B	2				
200424	JA8301A	B0412B	1				
200425	JA8301B	B0412A	1				
200424	JA8302A	B0412B	1				
200426	JA8302A	B0411B	1				
200425	JA8302B	B0412A	1				
200427	JA8302B	B0411A	1				
200426	JA8303A	B0411B	1				
200430	JA8303A	B0407B	1				
200427	JA8303B	B0411A	1				
200431	JA8303B	B0407A	1				
200430	JA8304A	B0407B	1				
200404	JA8304A	B0423B	1				
200405	JA8304B	B0423A	1				
200431	JA8304B	B0407A	1				
200404	JA8305A	B0423B	1				
200406	JA8305A	B0422B	1				
200405	JA8305B	B0423A	1				
200407	JA8305B	B0422A	1				
200408	JA8306A	B0421B	1				
200406	JA8306A	B0422B	1				
200407	JA8306B	B0422A	1				
200409	JA8306B	B0421A	1				
200408	JA8307A	B0421B	1				
200410	JA8307A	B0417B	1				
200409	JA8307B	B0421A	1				
200411	JA8307B	B0417A	1				
200412	JA8308A	B0416B	1				
200410	JA8308A	B0417B	1				
200411	JA8308B	B0417A	1				
200413	JA8308B	B0416A	1				

TITLE Logic Wirewrap - Applicable to 60 Pin I/O				WL	DOCUMENT NO.	SHEET NO. 24	REV. J
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
200414	JA8309A	B0415B	1				
200412	JA8309A	B0416B	1				
200415	JA8309B	B0415A	1				
200413	JA8309B	B0416A	1				
200416	JA8310A	B0414B	1				
200414	JA8310A	B0415B	1				
200415	JA8310B	B0415A	1				
200417	JA8310B	B0414A	1				
200416	JA8311A	B0414B	1				
200418	JA8311A	B0413B	1				
200419	JA8311B	B0413A	1				
200417	JA8311B	B0414A	1				
200422	JA8312A	B0409B	1				
200418	JA8312A	B0413B	1				
200423	JA8312B	B0409A	1				
200419	JA8312B	B0413A	1				
200422	JA8313A	B0409B	1				
200420	JA8313A	B0410B	1				
200423	JA8313B	B0409A	1				
200421	JA8313B	B0410A	1				
200420	JA8314A	B0410B	1				
200428	JA8314A	B0408B	1				
200429	JA8314B	B0408A	1				
200421	JA8314B	B0410A	1				
200428	JA8315A	B0408B	1				
200310	JA8315A	B0309A	1				
200429	JA8315B	B0408A	1				
200309	JA8315B	B0309B	1				
200310	JA8316A	B0309A	1				
200312	JA8316A	B0308A	1				
200309	JA8316B	B0309B	1				
200311	JA8316B	B0308B	1				
200312	JA8317A	B0308A	1				
200314	JA8317A	B0326A	1				
200313	JA8317B	B0326B	1				
200311	JA8317B	B0308B	1				
200306	JA8318A	B0306A	1				
200314	JA8318A	B0326A	1				
200313	JA8318B	B0326B	1				
200305	JA8318B	B0306B	1				
200316	JA8319A	B0325A	1				
200306	JA8319A	B0306A	1				
200305	JA8319B	B0306B	1				
200315	JA8319B	B0325B	1				
200318	JA8320A	B0327A	1				
200316	JA8320A	B0325A	1				
200315	JA8320B	B0325B	1				
200317	JA8320B	B0327B	1				
200508	JA8321A	B0525A	1				
200318	JA8321A	B0327A	1				
200317	JA8321B	B0327B	1				
200507	JA8321B	B0525B	1				

TITLE		WL		DOCUMENT NO.	SHEET NO.	REV.
Logic Wirewrap - Applicable to 60 Pin I/O					25	J
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES		
200508	JA8322A	B0525A	1			
200513	JA8322A	B0524B	1			
200507	JA8322B	B0525B	1			
200514	JA8322B	B0524A	1			
200434	JA8323A	B0405B	1			
200513	JA8323A	B0524B	1			
200435	JA8323B	B0405A	1			
200514	JA8323B	B0524A	1			
200432	JA8324A	B0406B	1			
200434	JA8324A	B0405B	1			
200433	JA8324B	B0406A	1			
200435	JA8324B	B0405A	1			
200432	JA8325A	B0406B	1			
200308	JA8325A	B0305A	1			
200433	JA8325B	B0406A	1			
200307	JA8325B	B0305B	1			
200329	JA8326A	B0313B	1			
200308	JA8326A	B0305A	1			
200330	JA8326B	B0313A	1			
200307	JA8326B	B0305B	1			
200329	JA8327A	B0313B	1			
200331	JA8327A	B0314B	1			
200330	JA8327B	B0313A	1			
200332	JA8327B	B0314A	1			
200331	JA8328A	B0314B	1			
200506	JA8328A	B0526A	1			
200332	JA8328B	B0314A	1			
200505	JA8328B	B0526B	1			
200506	JA8329A	B0526A	1			
101008	JA8329A	A1003B	2			
200505	JA8329B	B0526B	1			
101009	JA8329B	A1003A	2			
101007	JA8330A	A1004B	2			
101009	JA8330B	A1003A	2			
101007	JA8331A	A1004B	2			
300025	JA8333A	B0234A	2			
200319	JA8333B	B0328B	1			
200320	JA8334A	B0328A	1			
300026	JA8334B	B0334A	2			
200322	JA8335A	B0330A	1			
200319	JA8335A	B0328B	1			
200321	JA8335B	B0330B	1			
200320	JA8335B	B0328A	1			
200322	JA8336A	B0330A	1			
300027	JA8336A	B0434A	2			
200323	JA8336B	B0329B	1			
200321	JA8336B	B0330B	1			
200323	JA8337A	B0329B	1			
200324	JA8337A	B0329A	1			
200324	JA8337B	B0329A	1			
300028	JA8337B	B0534A	2			
200327	JA8338A	B0312B	1			

TITLE Logic Wirewrap - Applicable to 60 Pin I/O				WL	DOCUMENT NO.	SHEET NO. 26	REV. J
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
200328	JAB338B	B0312A	1				
200326	JAB339A	B0311A	1				
300029	JAB339A	B0634A	2				
200325	JAB339B	B0311B	1				
200326	JAB339B	B0311A	1				
200510	JAB340A	B0529A	1				
200325	JAB340A	B0311B	1				
200509	JAB340B	B0529B	1				
300030	JAB340B	B0734A	2				
200509	JAB341A	B0529B	1				
200512	JAB341A	B0527A	1				
200511	JAB341B	B0527B	1				
200510	JAB341B	B0529A	1				
200512	JAB342A	B0527A	1				
200511	JAB342B	B0527B	1				
200917	JAB343A	B0934A	2				
300031	JAB344B	B1034A	2				

50 PIN I/O

TITLE Logic Wirewrap - Applicable to 50 Pin I/O				WL	DOCUMENT NO. 77568124	SHEET NO. 1 OF 20	REV. Y
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
100416	A0101A	JA8007B	2				
100416	A0101A	JA8007A	1				
300023	A0101B	A0121B	1				
100305	A0104B	A0333A	1				
100101	A0112B	A0221A	1				
100101	A0112B	A0127B	2				
100105	A0113B	B0831A	1				
300022	A0114B	A0234B	1				
300023	A0121B	A0101B	1				
100304	A0122B	A0312B	1				
100103	A0123B	A0623B	1				
100102	A0124B	A0624B	1				
100104	A0126B	B0815A	1				
100101	A0127B	A0112B	2				
100108	A0128B	B0123B	2				
100107	A0130B	B0709A	1				
101020	A0133B	JA8003A	1				
100417	A0134B	JA8014B	1				
100309	A0213B	A0323B	1				
100409	A0214B	A1012B	2				
100308	A0215B	A0325B	1				
200802	A0216A	B0104A	1				
300024	A0216B	A0231A	2				
200621	A0217A	B0633B	1				
200501	A0217B	B0121B	1				
200501	A0217B	B1026A	2				
100101	A0221A	A0112B	1				
200504	A0221B	B0532A	2				
100504	A0222A	A0532B	1				
100504	A0222A	B0123A	2				
300024	A0222B	A0234A	2				
200221	A0223A	B0117B	1				
200217	A0223B	B0203A	2				
200208	A0224A	B0224B	2				
200218	A0224B	B0232B	2				
200206	A0225A	B0122H	1				
200204	A0225B	B0116A	1				
200216	A0226A	B0225A	2				
200202	A0226B	B0121A	1				
200202	A0226B	B0116H	2				
200214	A0227A	B0226A	2				
200210	A0228A	B0226B	2				
200212	A0229A	B0225B	2				
200223	A0230A	B0233B	2				
300024	A0231A	A0216B	2				
300024	A0231A	A0234A	1				
200220	A0232A	B0232A	2				
300024	A0234A	A0231A	1				
300024	A0234A	A0222B	2				
300022	A0234B	A0114B	1				
100301	A0307B	B092B	1				

TITLE Logic Wirewrap - Applicable to 50 Pin I/O				WL	DOCUMENT NO.	SHEET NO. 2	REV. M
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
100302	A0308B	B0927B	1				
100303	A0309B	A0R26B	1				
100307	A0311B	B0R04A	1				
100304	A0312B	A0122B	1				
100309	A0323B	A0213B	1				
100308	A0325B	A0215B	1				
200926	A0327B	B0R12A	2				
100306	A0332A	B0R05B	1				
100305	A0333A	A0104B	1				
100305	A0333A	B0R22R	2				
100418	A0403B	A0903B	1				
100403	A0407A	A1015B	2				
100403	A0407A	B0530R	1				
200108	A0408A	B0102B	1				
100410	A0409A	JA8002R	1				
300007	A0409B	JA8109A	1				
200904	A0410A	B0903R	1				
100411	A0410B	B0514A	1				
100411	A0410B	B1015B	2				
100404	A0411B	JA8001A	2				
100404	A0411B	A0707A	1				
200209	A0412A	B0230A	1				
100405	A0412B	A1027B	2				
100405	A0412B	JA8013A	1				
200201	A0413A	B0227B	2				
200201	A0413A	JA8110B	1				
200203	A0413B	B0229A	1				
200203	A0413B	A0531B	2				
100402	A0414A	B0931B	1				
300001	A0414B	JA8108A	1				
100407	A0415R	A1023R	1				
101010	A0416B	A1021A	1				
101002	A0424B	A1021R	1				
200919	A0425B	B0R17B	2				
100505	A0426A	A0525B	1				
100406	A0426B	B0324R	1				
100413	A0427A	JA8012A	1				
100413	A0427A	B0513A	2				
100412	A0428B	JA8011A	1				
100412	A0428B	B0513R	2				
200225	A0429A	B0204A	1				
200224	A0429B	B0204B	1				
100415	A0430A	B0512A	2				
100415	A0430A	JA8014A	1				
100R04	A0430B	A0R11A	1				
200104	A0431A	B0115A	1				
100414	A0431B	B0512R	2				
100414	A0431B	JA8011R	1				
200103	A0432A	B0115B	1				
100417	A0432B	A0932B	1				
201004	A0433A	A0523R	1				
100502	A0503B	A0610B	1				

TITLE Logic Wirewrap - Applicable to 50 Pin I/O			WL	DOCUMENT NO.	SHEET NO. 3	REV. M
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES		
100501	A05048	A06098	1			
300003	A05078	JA81078	1			
300002	A05088	JA81068	1			
300004	A05218	JA81058	1			
300005	A05228	JA8106A	1			
201004	A05238	A0433A	1			
201004	A05238	A08118	2			
200222	A05248	B02028	1			
100505	A05258	A0426A	1			
200211	A05278	A0824A	2			
100403	A05288	B07078	1			
100503	A05308	A06228	1			
200203	A05318	A06128	1			
200203	A05318	A04138	2			
100504	A05328	A0222A	1			
300013	A0601A	JA8101A	1			
300019	A06018	JA81038	1			
200219	A06038	B0233A	1			
200215	A06048	B02318	1			
100501	A06098	A05048	1			
100502	A06108	A05038	1			
200203	A06128	A05318	1			
200203	A06128	A08248	2			
200211	A06138	B0231A	2			
200211	A06138	A0824A	1			
100503	A06228	A05308	1			
100103	A06238	A01238	1			
100102	A06248	A01248	1			
100601	A06268	B03318	1			
100602	A06278	B0331A	1			
300021	A06338	JA81138	1			
300020	A06348	JA81118	1			
300014	A0701A	JA8114A	1			
200918	A0702A	B0931A	1			
100404	A0707A	A04118	1			
100404	A0707A	B09338	2			
200922	A07078	B09298	1			
200923	A0708A	B09128	1			
200911	A0710A	B0913A	1			
200610	A07118	B0602A	1			
200612	A07128	B0603A	1			
200613	A0713A	B0604A	1			
200616	A07138	B0610A	1			
200617	A0715A	B06098	1			
100809	A07158	A0826A	2			
200619	A0716A	B06118	1			
200902	A07168	A09238	2			
200618	A0717A	B0609A	1			
200907	A07178	B0916A	1			
200901	A07218	A09228	2			
200905	A07228	B09168	1			
100808	A07238	A0809A	1			

TITLE Logic Wirewrap - Applicable to 50 Pin I/O				WL	DOCUMENT NO.	SHEET NO. 4	REV. M
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
200611	A0725B	B0602B	1				
100701	A0726B	A0928B	1				
200608	A0727A	B0604B	1				
100703	A0727B	A0808B	1				
100902	A0728B	A0912B	1				
100702	A0730B	A0802A	1				
300015	A0801A	JAB107A	1				
100702	A0802A	A0730B	1				
100801	A0808A	B0816A	1				
100703	A0808B	A0727B	1				
100808	A0809A	A0723B	1				
100802	A0809B	B0810A	1				
200924	A0810B	B0906B	2				
100804	A0811A	A0430B	1				
201004	A0811B	H1008A	1				
201004	A0811B	A0523B	2				
200908	A0812A	B0914A	2				
100807	A0812B	B0905A	1				
200910	A0813A	B0922A	1				
200913	A0813B	B0930A	1				
200804	A0814B	B0810B	1				
200903	A0816A	B0904B	1				
200207	A0821A	B0229B	1				
100806	A0822A	A0927A	1				
200205	A0822B	B0228B	1				
100805	A0823A	B0828B	1				
200906	A0823B	B0906A	1				
200211	A0824A	A0527B	2				
200211	A0824A	A0613B	1				
200203	A0824B	A0612B	2				
100803	A0825A	JAB104B	1				
200925	A0825B	B0926A	1				
100809	A0826A	A0715B	2				
100809	A0826A	A0906A	1				
100303	A0826B	A0309B	1				
200912	A0832A	B0903A	2				
100901	A0833A	A0924B	1				
101011	A0902A	A1002B	2				
101011	A0902B	A1002B	1				
100418	A0903A	A0903B	2				
100418	A0903A	A0904A	1				
100418	A0903B	A0403B	1				
100418	A0903B	A0903A	2				
100418	A0904A	A0903A	1				
100418	A0904A	A0904B	2				
100418	A0904B	A0904A	2				
100809	A0906A	A0826A	1				
100902	A0912B	A0728B	1				
200922	A0915B	B0925A	1				
200921	A0916B	B0921B	2				
200901	A0922B	A0721B	2				
200901	A0922B	B0908A	1				

TITLE Logic Wirewrap - Applicable to 50 Pin I/O				WL	DOCUMENT NO.	SHEET NO. 5	REV. M
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
200902	A0923B	H0907A	1				
200902	A0923B	A0716B	2				
100901	A0924B	H0915A	2				
100901	A0924B	A0833A	1				
200926	A0925B	H0913B	2				
200609	A0926B	B0617B	1				
100806	A0927A	A0822A	1				
200909	A0927B	H0930B	1				
100701	A0928B	A0726B	1				
300018	A0931A	A0932A	1				
300018	A0931A	A0931B	2				
300018	A0931B	A0931A	2				
300018	A0932A	A1032B	2				
300018	A0932A	A0931A	1				
100417	A0932B	A0432B	1				
300018	A0932B	JA8114B	2				
101012	A0933A	A1033B	2				
101012	A0933B	A1033B	1				
300006	A1001A	JA8105A	1				
101005	A1002A	JA8113A	1				
101011	A1002B	A0902B	1				
101011	A1002B	A0902A	2				
101009	A1003A	JA8324B	2				
101009	A1003A	JA8224B	1				
101008	A1003B	JA8324A	2				
101008	A1003B	JA8224A	1				
101007	A1004B	JA8231A	1				
101007	A1004B	JA8331A	2				
100407	A1005B	A1023B	2				
100404	A1012A	JA8001A	1				
100409	A1012B	JA8009B	1				
100409	A1012B	A0214B	2				
101006	A1013A	B0532B	1				
101004	A1014B	B0912A	1				
100403	A1015B	B1016A	1				
100403	A1015B	A0407A	2				
101003	A1017A	B0923B	1				
200921	A1017B	B0804B	2				
101010	A1021A	A0416B	1				
101002	A1021B	A0424B	1				
101001	A1022A	H0926B	1				
100407	A1023B	A1005B	2				
100407	A1023B	A0415B	1				
101015	A1026A	JA8006A	1				
100408	A1026B	JA8005A	1				
101018	A1027A	JA8010A	1				
100405	A1027B	A0412B	2				
101013	A1028A	JA8005B	1				
101017	A1028B	JA8003B	1				
101014	A1029A	JA8006B	1				
101016	A1029B	JA8004B	1				
200927	A1030B	JA8004A	2				

TITLE Logic Wirewrap - Applicable to 50 Pin I/O				WL	DOCUMENT NO.	SHEET NO. 6	REV. M
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
300018	A1032B	JA8114B	1				
300018	A1032B	A0932A	2				
101012	A1033B	A0933B	1				
101012	A1033B	A0933A	2				
101019	A1034A	JA8010B	1				
200108	B0102B	A0408A	1				
200211	B0103A	B0231A	1				
200211	B0103A	B0726B	2				
200802	B0104A	A0216A	1				
200802	B0104A	B0304A	2				
200801	B0104B	B0304B	2				
200114	B0105A	JA8225A	1				
200113	B0105B	JA8225B	1				
200112	B0106A	JA8218A	1				
200111	B0106B	JA8218B	1				
200622	B0107A	B0307A	2				
200915	B0107B	B0307B	2				
200118	B0108A	JA8216A	1				
200117	B0108B	JA8216B	1				
200116	B0109A	JA8215A	1				
200115	B0109B	JA8215B	1				
200102	B0110A	B0521A	1				
200101	B0110B	B0516A	1				
200132	B0111A	JA8239B	1				
200131	B0111B	JA8240A	1				
200134	B0112A	JA8238B	1				
200133	B0112B	JA8238A	1				
200231	B0113A	B0221A	2				
200230	B0113B	B0221B	2				
200233	B0114A	B0217A	2				
200232	B0114B	B0217B	2				
200104	B0115A	A0431A	1				
200103	B0115B	A0432A	1				
200204	B0116A	A0225B	1				
200204	B0116A	B0227A	2				
200202	B0116B	A0226B	2				
200924	B0117A	B0626A	1				
200221	B0117B	A0223A	1				
200221	B0117B	B0202A	2				
200202	B0121A	B0224A	2				
200202	B0121A	A0226B	1				
200501	B0121B	A0217B	1				
200501	B0121B	B0203B	2				
200110	B0122A	B0134A	1				
200206	B0122B	B0228A	2				
200206	B0122B	A0225A	1				
100504	B0123A	A0222A	2				
100504	B0123A	B0323A	1				
100101	B0123B	B0323B	1				
100108	B0123B	A0128B	2				
200912	B0124A	B0632A	2				
200912	B0124A	B0324A	1				

TITLE Logic Wirewrap - Applicable to 50 Pin I/O				WL	DOCUMENT NO.	SHEET NO. 7	REV. M
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
100406	R0124B	B0324B	2				
200122	R0125A	JAB219A	1				
200121	B0125B	JAB219B	1				
200120	R0126A	JAB217A	1				
200119	R0126B	JAB217B	1				
200124	R0127A	JAB220A	1				
200123	R0127B	JAB220B	1				
200126	R0128A	JAB234A	1				
200125	R0128B	JAB233B	1				
200130	R0129A	JAB237A	1				
200129	R0129B	JAB236B	1				
200128	R0130A	JAB235A	1				
200127	R0130B	JAB235B	1				
100602	R0131A	B0331A	2				
100601	R0131B	B0331B	2				
200105	R0132A	JAB102A	1				
200107	R0132B	JAB104A	1				
200106	R0133B	JAB103A	1				
200110	R0134A	B0122A	1				
200221	R0202A	B0117B	2				
200221	R0202A	B0402A	1				
200222	R0202B	A0524B	1				
200217	R0203A	B0403A	1				
200217	R0203A	A0223B	2				
200501	R0203B	B0533A	1				
200501	R0203B	B0121B	2				
200225	R0204A	A0429A	1				
200224	R0204B	A0429B	1				
200227	R0205A	B0223A	2				
200226	R0205B	B0223B	2				
200229	R0206A	B0222A	2				
200228	R0206B	B0222B	2				
200253	R0207A	JAB203B	1				
200252	R0207B	JAB203A	1				
200251	R0208A	JAB214B	1				
200250	R0208B	JAB214A	1				
200245	R0209A	JAB212B	1				
200244	R0209B	JAB212A	1				
200243	R0210A	B1022A	2				
200243	R0210A	JAB213B	1				
200242	R0210B	B1022B	2				
200242	R0210B	JAB213A	1				
200249	R0211A	JAB202B	1				
200248	R0211B	JAB202A	1				
200247	R0212A	JAB201B	1				
200246	R0212B	JAB201A	1				
200241	R0213A	JAB211B	1				
200240	R0213B	JAB211A	1				
200239	R0214A	JAB210B	1				
200238	R0214B	JAB210A	1				
200237	R0215A	JAB209B	1				
200236	R0215B	JAB209A	1				

TITLE Logic Wirewrap - Applicable to 50 Pin I/O				WL	DOCUMENT NO.	SHEET NO. 8	REV. M
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
200235	R0216A	JA8208R	1				
200234	R0216B	JA8208A	1				
200233	R0217A	B0114A	2				
200233	R0217A	JA8207R	1				
200232	R0217B	JA8207A	1				
200232	R0217B	B0114R	2				
200231	R0221A	B0113A	2				
200231	R0221A	JA8206R	1				
200230	R0221B	JA8206A	1				
200230	R0221B	B0113B	2				
200229	R0222A	JA8205B	1				
200229	R0222A	B0206A	2				
200228	R0222B	JA8205A	1				
200228	R0222B	B0206B	2				
200227	R0223A	JA8204B	1				
200227	R0223A	B0205A	2				
200226	R0223B	JA8204A	1				
200226	R0223B	B0205B	2				
200202	R0224A	B0424A	1				
200202	R0224A	B0121A	2				
200208	R0224B	A0224A	2				
200208	R0224B	B0424B	1				
200216	R0225A	B0425A	1				
200216	R0225A	A0226A	2				
200212	R0225B	A0229A	2				
200212	R0225B	B0425B	1				
200214	R0226A	A0227A	2				
200214	R0226A	B0426A	1				
200210	R0226B	B0426B	1				
200210	R0226B	A0228A	2				
200204	R0227A	B0427A	1				
200204	R0227A	B0116A	2				
200201	R0227B	B0616B	1				
200201	R0227B	A0413A	2				
200206	R0228A	B0428A	1				
200206	R0228A	B0122B	2				
200205	R0228B	A0422B	1				
200203	R0229A	A0413B	1				
200207	R0229B	A0821A	1				
200209	R0230A	A0412A	1				
200213	R0230B	B0812B	1				
200211	B0231A	A0613B	2				
200211	R0231A	B0103A	1				
200215	R0231B	A0604B	1				
200220	R0232A	A0232A	2				
200220	R0232A	B0432A	1				
200218	R0232B	A0224B	2				
200218	R0232B	B0432B	1				
200219	R0233A	A0603B	1				
200223	R0233B	B0433B	1				
200223	R0233B	A0230A	2				
300025	R0234A	JA8333A	2				

TITLE Logic Wirewrap - Applicable to 50 Pin I/O				WL	DOCUMENT NO.	SHEET NO. 9	REV. M
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
300025	R0234A	JAB233A	1				
200802	R0304A	B0104A	2				
200802	R0304A	B0813B	1				
200801	R0304B	B0821B	1				
200801	R0304B	B0104B	2				
200308	R0305A	JAB325A	1				
200307	R0305B	JAB325B	1				
200306	R0306A	JAB318A	1				
200305	R0306B	JAB318B	1				
200622	R0307A	B0107A	2				
200622	R0307A	B0614B	1				
200915	R0307B	B0107B	2				
200915	R0307B	B0911A	1				
200312	R0308A	JAB316A	1				
200311	R0308B	JAB316B	1				
200310	R0309A	JAB315A	1				
200309	R0309B	JAB315B	1				
200302	R0310A	B0517B	1				
200301	R0310B	B0515B	1				
200326	R0311A	JAB339B	1				
200325	R0311B	JAB340A	1				
200328	R0312A	JAB338B	1				
200327	R0312B	JAB338A	1				
200409	R0313A	B0421A	2				
200408	R0313B	B0421B	2				
200411	R0314A	B0417A	2				
200410	R0314B	B0417B	2				
200304	R0315A	B0511A	1				
200303	R0315B	B0510B	1				
200504	R0321B	B1030A	1				
200504	R0321B	B0403B	2				
100504	R0323A	B0123A	1				
100101	R0323B	B0123B	1				
200912	R0324A	B0124A	1				
200912	R0324A	B0605B	2				
100406	R0324B	A0426B	1				
100406	R0324B	B0124B	2				
200316	R0325A	JAB319A	1				
200315	R0325B	JAB319B	1				
200314	R0326A	JAB317A	1				
200313	R0326B	JAB317B	1				
200318	R0327A	JAB320A	1				
200317	R0327B	JAB320B	1				
200320	R0328A	JAB334A	1				
200319	R0328B	JAB333B	1				
200324	R0329A	JAB337A	1				
200323	R0329B	JAB336B	1				
200322	R0330A	JAB335A	1				
200321	R0330B	JAB335B	1				
100602	R0331A	B0131A	2				
100602	R0331A	A0627B	1				
100601	R0331B	A0626B	1				

TITLE Logic Wirewrap - Applicable to 50 Pin I/O				WL	DOCUMENT NO.	SHEET NO. 10	REV. M
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
100601	B0331B	B0131B	2				
300026	B0334A	JA8234B	1				
300026	B0334A	JA8334B	2				
200221	B0402A	B0202A	1				
200401	B0402B	B0732B	1				
200217	B0403A	B0203A	1				
200217	B0403A	B0531A	2				
200504	B0403B	B0321B	2				
200504	B0403B	B0532A	1				
200403	B0404A	B0503B	1				
200402	B0404B	B0510A	1				
200405	B0405A	B0423A	2				
200404	B0405B	B0423B	2				
200407	B0406A	B0422A	2				
200406	B0406B	B0422B	2				
200431	B0407A	JA8303B	1				
200430	B0407B	JA8303A	1				
200429	B0408A	JA8314B	1				
200428	B0408B	JA8314A	1				
200423	B0409A	JA8312B	1				
200422	B0409B	JA8312A	1				
200421	B0410A	B1023A	2				
200421	B0410A	JA8313B	1				
200420	B0410B	B1023B	2				
200420	B0410B	JA8313A	1				
200427	B0411A	JA8302B	1				
200426	B0411B	JA8302A	1				
200425	B0412A	JA8301B	1				
200424	B0412B	JA8301A	1				
200419	B0413A	JA8311B	1				
200418	B0413B	JA8311A	1				
200417	B0414A	JA8310B	1				
200416	B0414B	JA8310A	1				
200415	B0415A	JA8309B	1				
200414	B0415B	JA8309A	1				
200413	B0416A	JA8308B	1				
200412	B0416B	JA8308A	1				
200411	B0417A	JA8307B	1				
200411	B0417A	B0314A	2				
200410	B0417B	JA8307A	1				
200410	B0417B	B0314B	2				
200409	B0421A	JA8306B	1				
200409	B0421A	B0313A	2				
200408	B0421B	B0313B	2				
200408	B0421B	JA8306A	1				
200407	B0422A	B0406A	2				
200407	B0422A	JA8305B	1				
200406	B0422B	B0406B	2				
200406	B0422B	JA8305A	1				
200405	B0423A	JA8304B	1				
200405	B0423A	B0405A	2				
200404	B0423B	JA8304A	1				

TITLE Logic Wirewrap - Applicable to 50 Pin I/O				WL	DOCUMENT NO.	SHEET NO. 11	REV. Y
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
200404	R0423B	B0405B	2				
200202	B0424A	B0224A	1				
200202	B0424A	B0631A	2				
200208	B0424B	B0224B	1				
200208	B0424B	B0628B	2				
200216	B0425A	B0225A	1				
200216	B0425A	B0626B	2				
200212	B0425B	B0624A	2				
200212	B0425B	B0225B	1				
200214	B0426A	B0622B	2				
200214	B0426A	B0226A	1				
200210	B0426B	B0629B	2				
200210	B0426B	B0226B	1				
200204	B0427A	B0633A	2				
200204	B0427A	B0227A	1				
200206	B0428A	B0228A	1				
200206	B0428A	B0630A	2				
200220	B0432A	B0606B	2				
200220	B0432A	B0232A	1				
200218	B0432B	B0232B	1				
200218	B0432B	B0621A	2				
200223	B0433B	B0502A	2				
200223	B0433B	B0233B	1				
300027	B0434A	JAB236A	1				
300027	B0434A	JAB336A	2				
200223	B0502A	B1009A	1				
200223	B0502A	B0433B	2				
200519	B0502B	B1025B	2				
200403	B0503B	B0404A	1				
200503	B0505A	JAB221A	1				
200502	B0505B	JAB221B	1				
200914	B0506A	B0932A	2				
201003	B0506B	B1027A	2				
201020	B0507A	B1010A	1				
200402	B0510A	B0404B	1				
200303	B0510B	B0315B	1				
200304	B0511A	B0315A	1				
100415	B0512A	A0430A	2				
100414	B0512B	A0431B	2				
100413	B0513A	A0427A	2				
100412	B0513B	A0428B	2				
100411	B0514A	A0410B	1				
200523	B0515A	B1030B	1				
200301	B0515B	B0310B	1				
200101	B0516A	B0110B	1				
200515	B0516B	B0723B	1				
200522	B0517A	B1027B	1				
200302	B0517B	B0310A	1				
200102	B0521A	B0110A	1				
201001	B0521B	B1016B	1				
200516	B0522A	B0710B	1				
201002	B0523B	B1002A	1				
200514	B0524A	JAB322B	1				

TITLE Logic Wirewrap - Applicable to 50 Pin I/O				WL	DOCUMENT NO.	SHEET NO. 12	REV. M
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES.			
200513	R0524B	JA8322A	1				
200508	R0525A	JA8321A	1				
200507	R0525B	JA8321B	1				
200506	R0526A	JA8323A	1				
200505	R0526B	JA8323B	1				
200512	R0527A	JA8342A	1				
200511	R0527B	JA8342B	1				
200510	R0529A	JA8341B	1				
200509	R0529B	JA8341A	1				
200703	R0530A	B0709B	1				
100403	R0530B	B0707B	2				
100403	R0530B	A0407A	1				
200217	R0531A	B0625A	1				
200217	R0531A	B0403A	2				
200521	R0531B	B1010B	1				
200504	R0532A	B0403B	1				
200504	R0532A	A0221B	2				
101006	R0532B	A1013A	1				
101006	R0532B	B1008B	2				
200501	R0533A	B0203B	1				
200520	R0533B	B0708B	1				
300028	R0534A	JA8237B	1				
300028	R0534A	JA8337B	2				
200610	R0602A	A0711B	1				
200611	R0602B	A0725B	1				
200612	R0603A	A0712B	1				
200908	R0603B	B0914A	1				
200613	R0604A	A0713A	1				
200608	R0604B	A0727A	1				
200920	R0605A	B0910B	1				
200912	R0605B	B0903A	1				
200912	R0605B	B0324A	2				
200614	R0606A	B0917B	1				
200220	R0606B	B0432A	2				
200606	R0607A	B0827B	1				
200615	R0607B	B0922B	1				
200618	R0609A	A0717A	1				
200617	R0609B	A0715A	1				
200616	R0610A	A0713B	1				
200619	R0611B	A0716A	1				
200601	R0613A	JA8110A	1				
200604	R0613B	B0904A	1				
200607	R0614A	B0914B	1				
200622	R0614B	B0307A	1				
100404	R0615A	B0933B	1				
200620	R0616A	JA8101B	1				
200201	R0616B	B0227B	1				
200201	R0616B	B0712B	2				
200609	R0617B	A0926B	1				
200218	R0621A	B0432B	2				
200218	R0621A	B0832A	1				
200214	R0622B	B0426A	2				

TITLE				WL	DOCUMENT NO.	SHEET NO.	REV.
Logic Wirewrap - Applicable to 50 Pin I/O						13	M
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
200214	R0622B	B0826B	1				
200602	R0623B	JA8111A	1				
200212	R0624A	B0826A	1				
200212	R0624A	B0425B	2				
200603	R0624B	JA8112A	1				
200217	R0625A	B0531A	1				
200217	R0625A	B0833B	2				
200916	R0625B	B0915B	1				
200924	R0626A	B0817A	2				
200924	R0626A	B0117A	1				
200216	R0626B	B0811B	1				
200216	R0626B	B0425A	2				
200208	R0628B	B0823B	1				
200208	R0628B	B0424B	2				
200210	R0629B	B0822A	1				
200210	R0629B	B0426B	2				
200206	R0630A	B0823A	1				
200206	R0630A	B0428A	2				
200202	R0631A	B0832B	1				
200202	R0631A	B0424A	2				
200912	R0632A	B0124A	2				
200605	R0632B	B0910A	1				
200204	R0633A	B0427A	2				
200204	R0633A	B0825A	1				
200621	R0633B	A0217A	1				
300029	R0634A	JA8339A	2				
300029	R0634A	JA8239A	1				
100403	R0707B	B0530B	2				
100403	R0707B	A0528B	1				
200520	R0708B	B0533B	1				
100107	R0709A	A0130B	1				
200703	R0709B	B0530A	1				
200516	R0710B	B0522A	1				
200201	R0712B	B0616B	2				
200515	R0723B	B0516B	1				
200211	R0726B	B0103A	2				
200701	R0729A	JA8108A	1				
200702	R0729B	JA8109B	1				
200401	R0732B	B0402B	1				
300030	R0734A	JA8240B	1				
300030	R0734A	JA8340B	2				
200812	R0801A	B0811A	1				
100307	R0804A	A0311B	1				
200921	R0804B	B0921B	1				
200921	R0804B	A1017B	2				
200813	R0805A	B0814A	1				
100306	R0805B	A0332A	1				
200807	R0806A	B0911B	1				
200808	R0806B	B0924A	1				
200805	R0807A	B0932B	1				
200810	R0807B	B0925B	1				
100802	R0810A	A0809B	1				

TITLE Logic Wirewrap - Applicable to 50 Pin I/O				WL	DOCUMENT NO.	SHEET NO. 14	REV. M
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
200B04	B0B10B	A0B14B	1				
200A12	B0A11A	B0B01A	1				
200216	B0B11B	B0626B	1				
200926	B0B12A	B0913B	1				
200926	B0A12A	A0327B	2				
200213	B0B12B	B0230B	1				
200213	B0A12B	B0927A	2				
200A14	B0B13A	B0B15B	2				
200B02	B0A13B	B0304A	1				
200A13	B0A14A	B0B14B	2				
200A13	B0B14A	B0B05A	1				
200A13	B0A14B	B0B25B	1				
200A13	B0B14B	B0A14A	2				
100104	B0A15A	A0126B	1				
200B14	B0B15B	B0B24B	1				
200B14	B0B15B	B0B13A	2				
100A01	B0A16A	A0B08A	1				
200B06	B0B16B	B0902A	1				
200924	B0A17A	B0626A	2				
200924	B0A17A	B0906B	1				
200919	B0A17B	B0907B	1				
200919	B0B17B	A0425B	2				
200A09	B0B21A	B0917A	1				
200A01	B0B21B	B0304A	1				
200210	B0A22A	B0629B	1				
100305	B0A22B	A0333A	2				
200206	B0A23A	B0630A	1				
200208	B0B23B	B062AB	1				
200A14	B0A24A	B0B24B	2				
200A14	B0A24A	B0B34A	1				
200A14	B0A24B	B0B24A	2				
200A14	B0A24B	B0B15A	1				
200204	B0A25A	B0633A	1				
200A13	B0B25B	B0A14A	1				
200A13	B0A25B	B0B29A	2				
200212	B0A26A	B0624A	1				
200214	B0A26B	B0622B	1				
200A03	B0B27A	B0933A	1				
200606	B0B27B	B0902B	2				
200606	B0B27B	B0607A	1				
100A05	B0A28B	A0B23A	1				
200B13	B0A29A	B0B29B	1				
200A13	B0A29A	B0A25B	2				
200A13	B0A29B	B0A29A	1				
200A13	B0A29B	B0B30A	2				
200A13	B0A30A	B0A29B	2				
100105	B0A31A	A0113B	1				
200218	B0A32A	B0621A	1				
200202	B0A32B	B0631A	1				
200A11	B0A33A	B0929A	1				
200217	B0A33B	B0625A	2				
200217	B0B33B	B1003A	1				

TITLE Logic Wirewrap - Applicable to 50 Pin I/O				WL	DOCUMENT NO.	SHEET NO. 15	REV. M
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
200814	B0834A	JA8243A	2				
200814	B0834A	B0824A	1				
200806	B0902A	B0816B	1				
200606	B0902B	B0827B	2				
200606	B0902B	B0905B	1				
200912	B0903A	A0832A	2				
200912	B0903A	B0605B	1				
200904	B0903B	A0410A	1				
200604	B0904A	B0613B	1				
200903	B0904B	A0816A	1				
100807	B0905A	A0812B	1				
200606	B0905B	B0902B	1				
200906	B0906A	A0823B	1				
200924	B0906B	B0817A	1				
200924	B0906B	A0810B	2				
200912	B0907A	A0923B	1				
200919	B0907B	B0817B	1				
200901	B0908A	A0922B	1				
200907	B0909A	B0916A	2				
200605	B0910A	B0632B	1				
200920	B0910B	B0605A	1				
200915	B0911A	B0307B	1				
200807	B0911B	B0806A	1				
101004	B0912A	A1014B	1				
200923	B0912B	A0708A	1				
200911	B0913A	A0710A	1				
200926	B0913B	B0812A	1				
200926	B0913B	A0925B	2				
200908	B0914A	A0812A	2				
200908	B0914A	B0603B	1				
200607	B0914B	B0614A	1				
100901	B0915A	A0924B	2				
200916	B0915B	B0625B	1				
200907	B0916A	A0717B	1				
200907	B0916A	B0909A	2				
200905	B0916B	A0722B	1				
200809	B0917A	B0821A	1				
200614	B0917B	B0606A	1				
200921	B0921B	B0804B	1				
200921	B0921B	A0916B	2				
200910	B0922A	A0813A	1				
200615	B0922B	B0607B	1				
200917	B0923A	B0934A	1				
101003	B0923B	A1017A	1				
200808	B0924A	B0806B	1				
200927	B0924B	JA8004A	1				
200922	B0925A	A0915B	1				
200810	B0925B	B0807B	1				
200925	B0926A	A0825B	1				
101001	B0926B	A1022A	1				
200213	B0927A	B0812B	2				
100302	B0927B	A0308B	1				

TITLE Logic Wirewrap - Applicable to 50 Pin I/O				WL	DOCUMENT NO.	SHEET NO. 16	REV. Y
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
100301	B0928B	A0307H	1				
200811	B0929A	B0833A	1				
200922	B0929B	A0707B	1				
200913	B0930A	A0813B	1				
200909	B0930B	A0927B	1				
200918	B0931A	A0702A	1				
100402	B0931B	A0414A	1				
200914	B0932A	B0506A	2				
200914	B0932A	B1009B	1				
200805	B0932B	B0807A	1				
200803	B0933A	B0827A	1				
100404	B0933B	B0615A	1				
100404	B0933B	A0707A	2				
200917	B0934A	B0923A	1				
200917	B0934A	JA8343A	2				
201002	B1002A	B0523B	1				
200217	B1003A	B0833B	1				
201005	B1007A	JA8222B	1				
201006	B1007B	JA8222A	1				
201004	B1008A	A0811B	1				
101006	B1008B	B0532B	2				
200223	B1009A	B0502A	1				
200914	B1009B	B0932A	1				
201020	B1010A	B0507A	1				
200521	B1010B	B0531B	1				
100411	B1015B	A0410B	2				
100403	B1016A	A1015B	1				
201001	B1016B	B0521B	1				
200243	B1022A	B0210A	2				
200242	B1022B	B0210B	2				
200421	B1023A	B0410A	2				
200420	B1023B	B0410B	2				
200519	B1025B	B0502B	2				
200501	B1026A	A0217H	2				
201003	B1027A	B0506B	2				
200522	B1027B	B0517A	1				
201008	B1028A	JA8242A	1				
201007	B1028B	JA8242B	1				
201010	B1029A	JA8241B	1				
201009	B1029B	JA8241A	1				
200504	B1030A	B0321H	1				
200523	B1030B	B0515A	1				
201012	B1031A	JA8223A	1				
201011	B1031B	JA8223B	1				
300031	B1034A	JA8244B	1				
300031	B1034A	JA8344B	2				
100404	JA8001A	A1012A	1				
100404	JA8001A	A0411B	2				
100410	JA8002B	A0409A	1				
101020	JA8003A	A0133B	1				
101017	JA8003B	A1028B	1				
200927	JA8004A	A1030B	2				
200927	JA8004A	B0924H	1				

TITLE Logic Wirewrap - Applicable to 50 Pin I/O				WL	DOCUMENT NO.	SHEET NO. 17	REV. M
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
101016	JA8004B	A1029B	1				
100408	JA8005A	A1026B	1				
101013	JA8005B	A1028A	1				
101015	JA8006A	A1026A	1				
101014	JA8006B	A1029A	1				
100416	JA8007A	A0101A	1				
100416	JA8007B	A0101A	2				
300016	JA8008A	JA8102B	1				
300017	JA8008B	JA8112B	1				
100409	JA8009B	A1012B	1				
101018	JA8010A	A1027A	1				
101019	JA8010B	A1034A	1				
100412	JA8011A	A0428B	1				
100414	JA8011B	A0431B	1				
100413	JA8012A	A0427A	1				
100405	JA8013A	A0412B	1				
100415	JA8014A	A0430A	1				
100417	JA8014B	A0134B	1				
300013	JA8101A	A0601A	1				
200620	JA8101B	B0616A	1				
200105	JA8102A	B0132A	1				
300016	JA8102B	JA8008A	1				
200106	JA8103A	B0133B	1				
300019	JA8103B	A0601B	1				
200107	JA8104A	B0132B	1				
100803	JA8104B	A0825A	1				
300006	JA8105A	A1001A	1				
300004	JA8105B	A0521B	1				
300005	JA8106A	A0522B	1				
300002	JA8106B	A0508B	1				
300015	JA8107A	A0801A	1				
300003	JA8107B	A0507B	1				
300001	JA8108A	A0414B	1				
200701	JA8108B	B0729A	1				
300007	JA8109A	A0409B	1				
200702	JA8109B	B0729B	1				
200601	JA8110A	B0613A	1				
200201	JA8110B	A0413A	1				
200602	JA8111A	B0623B	1				
300020	JA8111B	A0634B	1				
200603	JA8112A	B0624B	1				
300017	JA8112B	JA8008B	1				
101005	JA8113A	A1002A	1				
300021	JA8113B	A0633B	1				
300014	JA8114A	A0701A	1				
300018	JA8114B	A1032B	1				
300018	JA8114B	A0932B	2				
200246	JA8201A	B0212B	1				
200247	JA8201B	B0212A	1				
200248	JA8202A	B0211B	1				
200249	JA8202B	B0211A	1				
200252	JA8203A	B0207B	1				

TITLE Logic Wirewrap - Applicable to 50 Pin I/O				WL	DOCUMENT NO.	SHEET NO. 18	REV. M
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
200253	JA82038	B0207A	1				
200226	JA8204A	B0223B	1				
200227	JA8204B	B0223A	1				
200228	JA8205A	B0222B	1				
200229	JA8205B	B0222A	1				
200230	JA8206A	B0221B	1				
200231	JA8206B	B0221A	1				
200232	JA8207A	B0217B	1				
200233	JA8207B	B0217A	1				
200234	JA8208A	B0216B	1				
200235	JA8208B	B0216A	1				
200236	JA8209A	B0215B	1				
200237	JA8209B	B0215A	1				
200238	JA8210A	B0214B	1				
200239	JA8210B	B0214A	1				
200240	JA8211A	B0213B	1				
200241	JA8211B	B0213A	1				
200244	JA8212A	B0209B	1				
200245	JA8212B	B0209A	1				
200242	JA8213A	B0210B	1				
200243	JA8213B	B0210A	1				
200240	JA8214A	B0208B	1				
200241	JA8214B	B0208A	1				
200116	JA8215A	B0109A	1				
200115	JA8215B	B0109B	1				
200118	JA8216A	B0108A	1				
200117	JA8216B	B0108B	1				
200120	JA8217A	B0126A	1				
200119	JA8217B	B0126B	1				
200112	JA8218A	B0106A	1				
200111	JA8218B	B0106B	1				
200122	JA8219A	B0125A	1				
200121	JA8219B	B0125B	1				
200124	JA8220A	B0127A	1				
200123	JA8220B	B0127B	1				
200503	JA8221A	B0505A	1				
200502	JA8221B	B0505B	1				
201006	JA8222A	B1007B	1				
201005	JA8222B	B1007A	1				
201012	JA8223A	B1031A	1				
201011	JA8223B	B1031B	1				
101008	JA8224A	A1003B	1				
101009	JA8224B	A1003A	1				
200114	JA8225A	B0105A	1				
200113	JA8225B	B0105B	1				
101007	JA8231A	A1004B	1				
300025	JA8233A	B0234A	1				
200125	JA8233B	B0128B	1				
200126	JA8234A	B0128A	1				
300026	JA8234B	B0334A	1				
200128	JA8235A	B0130A	1				
200127	JA8235B	B0130B	1				

TITLE Logic Wirewrap - Applicable to 50 Pin I/O				WL	DOCUMENT NO.	SHEET NO. 19	REV. M
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
300027	JA8236A	80434A	1				
200129	JA8236B	80129R	1				
200130	JA8237A	80129A	1				
300028	JA8237B	80534A	1				
200133	JA8238A	80112B	1				
200134	JA8238B	80112A	1				
300029	JA8239A	80634A	1				
200132	JA8239B	80111A	1				
200131	JA8240A	80111B	1				
300030	JA8240B	80734A	1				
201009	JA8241A	81029B	1				
201010	JA8241B	81029A	1				
201008	JA8242A	81028A	1				
201007	JA8242B	81028B	1				
200814	JA8243A	80834A	2				
300031	JA8244B	81034A	1				
200424	JA8301A	80412B	1				
200425	JA8301B	80412A	1				
200426	JA8302A	80411B	1				
200427	JA8302B	80411A	1				
200430	JA8303A	80407B	1				
200431	JA8303B	80407A	1				
200404	JA8304A	80423B	1				
200405	JA8304B	80423A	1				
200406	JA8305A	80422B	1				
200407	JA8305B	80422A	1				
200408	JA8306A	80421B	1				
200409	JA8306B	80421A	1				
200410	JA8307A	80417B	1				
200411	JA8307B	80417A	1				
200412	JA8308A	80416B	1				
200413	JA8308B	80416A	1				
200414	JA8309A	80415B	1				
200415	JA8309B	80415A	1				
200416	JA8310A	80414B	1				
200417	JA8310B	80414A	1				
200418	JA8311A	80413B	1				
200419	JA8311B	80413A	1				
200422	JA8312A	80409B	1				
200423	JA8312B	80409A	1				
200420	JA8313A	80410B	1				
200421	JA8313B	80410A	1				
200428	JA8314A	80408B	1				
200429	JA8314B	80408A	1				
200310	JA8315A	80309A	1				
200309	JA8315B	80309B	1				
200312	JA8316A	80308A	1				
200311	JA8316B	80308B	1				
200314	JA8317A	80326A	1				
200313	JA8317B	80326B	1				
200306	JA8318A	80306A	1				
200305	JA8318B	80306B	1				

TITLE Logic Wirewrap - Applicable to 50 Pin I/O				WL	DOCUMENT NO.	SHEET NO. 20	REV. M
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z- LEVEL	NOTES			
200316	JA8319A	B0325A	1				
200315	JA8319B	B0325B	1				
200318	JA8320A	B0327A	1				
200317	JA8320B	B0327B	1				
200508	JA8321A	B0525A	1				
200507	JA8321B	B0525B	1				
200513	JA8322A	B0524B	1				
200514	JA8322B	B0524A	1				
200506	JA8323A	B0526A	1				
200505	JA8323B	B0526B	1				
101008	JA8324A	A1003B	2				
101009	JA8324B	A1003A	2				
200308	JA8325A	B0305A	1				
200307	JA8325B	B0305B	1				
101007	JA8331A	A1004B	2				
300025	JA8333A	B0234A	2				
200319	JA8333B	B0328B	1				
200320	JA8334A	B0328A	1				
300026	JA8334B	B0334A	2				
200322	JA8335A	B0330A	1				
200321	JA8335B	B0330B	1				
300027	JA8336A	B0434A	2				
200323	JA8336B	B0329B	1				
200324	JA8337A	B0329A	1				
300028	JA8337B	B0534A	2				
200327	JA8338A	B0312B	1				
200328	JA8338B	B0312A	1				
300029	JA8339A	B0634A	2				
200326	JA8339B	B0311A	1				
200325	JA8340A	B0311B	1				
300030	JA8340B	B0734A	2				
200509	JA8341A	B0529B	1				
200510	JA8341B	B0529A	1				
200512	JA8342A	B0527A	1				
200511	JA8342B	B0527B	1				
200917	JA8343A	B0934A	2				
300031	JA8344B	B1034A	2				

INDEX AND SECTOR IN B CABLE

TITLE Logic Wirewrap - Applicable to Index and Sector in B Cable				WL	DOCUMENT NO. 77568125	SHEET NO. 1 of 20	REV. Y
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
100416	A0101A	JA8007A	1				
100416	A0101A	JA8007B	2				
300023	A0101B	A0121B	1				
100305	A0104B	A0333A	1				
100101	A0112B	A0127B	2				
100101	A0112B	A0221A	1				
100105	A0113B	B0831A	1				
300022	A0114B	A0234B	1				
300023	A0121B	A0101B	1				
100304	A0122B	A0312B	1				
100103	A0123B	A0623B	1				
100102	A0124B	A0624B	1				
100104	A0126B	B0815A	1				
100101	A0127B	A0112B	2				
100108	A0128B	B0123B	2				
100107	A0130B	B0709A	1				
101020	A0133B	JA8003A	1				
100417	A0134B	JA8014B	1				
100309	A0213B	A0323B	1				
100409	A0214B	A1012B	2				
100308	A0215B	A0325B	1				
200802	A0216A	B0104A	1				
300024	A0216B	A0231A	2				
200621	A0217A	B0633B	1				
200501	A0217B	B1026A	2				
200501	A0217B	B0121B	1				
100101	A0221A	A0112B	1				
200504	A0221B	B0532A	2				
100504	A0222A	A0532B	1				
100504	A0222A	B0123A	2				
300024	A0222B	A0234A	2				
200221	A0223A	B0117B	1				
200217	A0223B	B0203A	2				
200208	A0224A	B0224B	2				
200218	A0224B	B0232B	2				
200206	A0225A	B0122B	1				
200204	A0225B	B0116A	1				
200216	A0226A	B0225A	2				
200202	A0226B	B0116B	2				
200202	A0226B	B0121A	1				
200214	A0227A	B0226A	2				
200210	A0228A	B0226B	2				
200212	A0229A	B0225B	2				
200223	A0230A	B0233B	2				
300024	A0231A	A0216B	2				
300024	A0231A	A0234A	1				
200220	A0232A	B0232A	2				
300024	A0234A	A0222B	2				
300024	A0234A	A0231A	1				
300022	A0234B	A0114B	1				
100301	A0307B	B0929B	1				

TITLE Logic Wirewrap - Applicable to Index and Sector in B Cable				WL	DOCUMENT NO.	SHEET NO. 2	REV. N
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
100302	A0308R	B0927B	1				
100303	A0309B	A0826B	1				
100307	A0311B	B0804A	1				
100304	A0312B	A0122B	1				
100309	A0323B	A0213B	1				
100308	A0325B	A0215B	1				
200926	A0327B	B0812A	2				
100306	A0332A	B0805B	1				
100305	A0333A	A0104B	1				
100305	A0333A	B0822B	2				
100418	A0403B	A0903B	1				
100403	A0407A	B0530B	1				
100403	A0407A	A1015B	2				
200108	A0408A	B0102B	1				
100410	A0409A	JA8002B	1				
300007	A0409B	JA8109A	1				
200904	A0410A	B0903B	1				
100411	A0410B	B1015B	2				
100411	A0410B	B0514A	1				
100404	A0411B	JA8001A	2				
100404	A0411B	A0707A	1				
200209	A0412A	B0230A	1				
100405	A0412B	JA8013A	1				
100405	A0412B	A1027B	2				
200201	A0413A	JA8110B	1				
200201	A0413A	B0227B	2				
200203	A0413B	B0229A	1				
200203	A0413B	A0531B	2				
100402	A0414A	B0931B	1				
300001	A0414B	JA8108A	1				
100407	A0415B	A1023B	1				
101010	A0416B	A1021A	1				
101002	A0424B	A1021B	1				
200919	A0425B	B0817B	2				
100505	A0426A	A0525B	1				
100406	A0426B	B0324B	1				
100413	A0427A	JA8012A	1				
100413	A0427A	B0513A	2				
100412	A0428B	JA8011A	1				
100412	A0428B	B0513B	2				
200225	A0429A	B0204A	1				
200224	A0429B	B0204B	1				
100415	A0430A	B0512A	2				
100415	A0430A	JA8014A	1				
100804	A0430B	A0811A	1				
200104	A0431A	B0115A	1				
100414	A0431B	B0512B	2				
100414	A0431B	JA8011B	1				
200103	A0432A	B0115B	1				
100417	A0432B	A0932B	1				
201004	A0433A	A0523B	1				
100502	A0503B	A0610B	1				

TITLE Logic Wirewrap - Applicable to Index and Sector in B Cable				WL	DOCUMENT NO.	SHEET NO. 3	REV. N
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
100501	A0504B	A0609B	1				
300003	A0507B	JAB107B	1				
300002	A0508B	JAB106B	1				
300004	A0521B	JAB105B	1				
300005	A0522B	JAB106A	1				
201004	A0523B	A0811B	2				
201004	A0523B	A0433A	1				
200222	A0524B	B0202B	1				
100505	A0525B	A0426A	1				
200211	A0527B	A0824A	2				
100403	A0528B	B0707B	1				
100503	A0530B	A0622B	1				
200203	A0531B	A0413B	2				
200203	A0531B	A0612B	1				
100504	A0532B	A0222A	1				
300013	A0601A	JAB101A	1				
300019	A0601B	JAB103B	1				
200219	A0603B	B0233A	1				
200215	A0604B	B0231B	1				
100501	A0609B	A0504B	1				
100502	A0610B	A0503B	1				
200203	A0612B	A0824B	2				
200203	A0612B	A0531B	1				
200211	A0613B	B0231A	2				
200211	A0613B	A0824A	1				
100503	A0622B	A0530B	1				
100103	A0623B	A0123B	1				
100102	A0624B	A0124B	1				
100601	A0626B	B0331B	1				
100602	A0627B	B0331A	1				
300021	A0633B	JAB113B	1				
300020	A0634B	JAB111B	1				
300014	A0701A	JAB114A	1				
200918	A0702A	B0931A	1				
100404	A0707A	B0933B	2				
100404	A0707A	A0411B	1				
200922	A0707B	B0929B	1				
200923	A0708A	B0912B	1				
200911	A0710A	B0913A	1				
200610	A0711B	B0602A	1				
200612	A0712B	B0603A	1				
200613	A0713A	B0604A	1				
200616	A0713B	B0610A	1				
200617	A0715A	B0609B	1				
100809	A0715B	A0826A	2				
200619	A0716A	B0611B	1				
200902	A0716B	A0923B	2				
200618	A0717A	B0609A	1				
200907	A0717B	B0916A	1				
200901	A0721B	A0922B	2				
200905	A0722B	B0916B	1				
100808	A0723B	A0809A	1				

TITLE Logic Wirewrap - Applicable to Index and Sector in B Cable				WL	DOCUMENT NO.	SHEET NO. 4 -	REV. N
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
200611	A0725B	B0602B	1				
100701	A0726B	A0928B	1				
200608	A0727A	B0604B	1				
100703	A0727B	A0808B	1				
100902	A0728B	A0912B	1				
100702	A0730B	A0802A	1				
300015	A0801A	JA8107A	1				
100702	A0802A	A0730B	1				
100801	A0808A	B0816A	1				
100703	A0808B	A0727B	1				
100808	A0809A	A0723B	1				
100802	A0809B	B0810A	1				
200924	A0810B	B0906B	2				
100804	A0811A	A0430B	1				
201004	A0811B	B1008A	1				
201004	A0811B	A0523B	2				
200908	A0812A	B0914A	2				
100807	A0812B	B0905A	1				
200910	A0813A	B0922A	1				
200913	A0813B	B0930A	1				
200804	A0814B	B0810B	1				
200903	A0816A	B0904B	1				
200207	A0821A	B0229B	1				
100806	A0822A	A0927A	1				
200205	A0822B	B0228B	1				
100805	A0823A	B0828B	1				
200906	A0823B	B0906A	1				
200211	A0824A	A0613B	1				
200211	A0824A	A0527B	2				
200203	A0824B	A0612B	2				
100803	A0825A	JA8104B	1				
200925	A0825B	B0926A	1				
100809	A0824A	A0906A	1				
100809	A0826A	A0715B	2				
100303	A0824B	A0309B	1				
200912	A0832A	B0903A	2				
100901	A0833A	A0924B	1				
101011	A0902A	A1002B	2				
101011	A0902B	A1002B	1				
100418	A0903A	A0904A	1				
100418	A0903A	A0903B	2				
100418	A0903B	A0903A	2				
100418	A0903B	A0403B	1				
100418	A0904A	A0903A	1				
100418	A0904A	A0904B	2				
100418	A0904B	A0904A	2				
100809	A0906A	A0826A	1				
100902	A0912B	A0728B	1				
200922	A0915B	B0925A	1				
200921	A0916B	B0921B	2				
200901	A0922B	A0721B	2				
200901	A0922B	B0908A	1				

TITLE Logic Wirewrap - Applicable to Index and Sector in B Cable				WL	DOCUMENT NO.	SHEET NO. 5	REV. N
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTINATION	Z LEVEL	NOTES			
200902	A0923B	B0907A	1				
200902	A0923B	A0716B	2				
100901	A0924B	B0915A	2				
100901	A0924B	A0833A	1				
200926	A0925B	B0913B	2				
200609	A0926B	B0617B	1				
100806	A0927A	A0822A	1				
200909	A0927B	B0930B	1				
100701	A0928B	A0726B	1				
300018	A0931A	A0932A	1				
300018	A0931A	A0931B	2				
300018	A0931B	A0931A	2				
300018	A0932A	A0931A	1				
300018	A0932A	A1032B	2				
100417	A0932B	A0432B	1				
300018	A0932B	JA8114B	2				
101012	A0933A	A1033B	2				
101012	A0933B	A1033B	1				
300006	A1001A	JA8105A	1				
101005	A1002A	JA8113A	1				
101011	A1002B	A0902B	1				
101011	A1002B	A0902A	2				
101009	A1003A	JA8229B	1				
101009	A1003A	JA8329B	2				
101008	A1003B	JA8329A	2				
101008	A1003B	JA8229A	1				
101007	A1004B	JA8331A	2				
101007	A1004B	JA8231A	1				
100407	A1005B	A1023B	2				
100404	A1012A	JA8001A	1				
100409	A1012B	A0214B	2				
100409	A1012B	JA8009B	1				
101006	A1013A	B0532B	1				
101004	A1014B	B0912A	1				
100403	A1015B	A0407A	2				
100403	A1015B	B1016A	1				
101003	A1017A	B0923B	1				
200921	A1017B	B0804B	2				
101010	A1021A	A0416B	1				
101002	A1021B	A0424B	1				
101001	A1022A	B0926B	1				
100407	A1023B	A0415B	1				
100407	A1023B	A1005B	2				
101015	A1026A	JA8006A	1				
100408	A1026B	JA8005A	1				
101018	A1027A	JA8010A	1				
100405	A1027B	A0412B	2				
101013	A1028A	JA8005B	1				
101017	A1028B	JA8003B	1				
101014	A1029A	JA8006B	1				
101016	A1029B	JA8004B	1				
200927	A1030B	JA8004A	2				

TITLE Logic Wirewrap - Applicable to Index and Sector in 8 Cable				WL	DOCUMENT NO.	SHEET NO. 6	REV. N-
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
300018	A1032B	A0932A	2				
300018	A1032B	JA8114B	1				
101012	A1033B	A0933B	1				
101012	A1033B	A0933A	2				
101019	A1034A	JA8010B	1				
200108	B0102B	A0408A	1				
200211	B0103A	B0726B	2				
200211	B0103A	B0231A	1				
200802	B0104A	A0216A	1				
200802	B0104A	B0304A	2				
200801	B0104B	B0304B	2				
200114	B0105A	JA8245A	1				
200113	B0105B	JA8245B	1				
200112	B0106A	JA8244A	1				
200111	B0106B	JA8243B	1				
200622	B0107A	B0307A	2				
200915	B0107B	B0307B	2				
200118	B0108A	JA8216A	1				
200117	B0108B	JA8216B	1				
200116	B0109A	JA8215A	1				
200115	B0109B	JA8215B	1				
200102	B0110A	B0521A	1				
200101	B0110B	B0516A	1				
200172	B0111A	JA8239B	1				
200171	B0111B	JA8240A	1				
200174	B0112A	JA8238B	1				
200173	B0112B	JA8238A	1				
200176	B0113A	JA8226B	1				
200175	B0113B	JA8226A	1				
200178	B0114A	JA8227B	1				
200177	B0114B	JA8227A	1				
200104	B0115A	A0431A	1				
200103	B0115B	A0432A	1				
200204	B0116A	B0227A	2				
200204	B0116A	A0225B	1				
200202	B0116B	A0226B	2				
200924	B0117A	B0626A	1				
200221	B0117B	A0223A	1				
200221	B0117B	B0202A	2				
200202	B0121A	A0226B	1				
200202	B0121A	B0224A	2				
200501	B0121B	B0203B	2				
200501	B0121B	A0217B	1				
200110	B0122A	B0134A	1				
200206	B0122B	B0228A	2				
200206	B0122B	A0225A	1				
100504	B0123A	A0222A	2				
100504	B0123A	B0323A	1				
100108	B0123B	A0128B	2				
100101	B0123B	B0323B	1				
200912	B0124A	B0324A	1				
200912	B0124A	B0632A	2				

TITLE Logic Wirewrap - Applicable to Index and Sector in B Cable				WL	DOCUMENT NO.	SHEET NO. 7	REV. N
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
100406	R0124B	B0324B	2				
200122	R0125A	JA8219A	1				
200121	R0125B	JA8219B	1				
200120	R0126A	JA8217A	1				
200119	R0126B	JA8217B	1				
200124	R0127A	JA8220A	1				
200123	R0127B	JA8220B	1				
200126	R0128A	JA8234A	1				
200125	R0128B	JA8233B	1				
200130	R0129A	JA8237A	1				
200129	R0129B	JA8236B	1				
200128	R0130A	JA8235A	1				
200127	R0130B	JA8235B	1				
100602	R0131A	B0331A	2				
100601	R0131B	B0331B	2				
200105	R0132A	JA8102A	1				
200107	R0132B	JA8104A	1				
200106	R0133B	JA8103A	1				
200110	R0134A	B0122A	1				
200221	R0202A	B0402A	1				
200221	R0202A	B0117B	2				
200222	R0202B	A0524B	1				
200217	R0203A	B0403A	1				
200217	R0203A	A0223B	2				
200501	R0203B	B0533A	1				
200501	R0203B	B0121B	2				
200225	R0204A	A0429A	1				
200224	R0204B	A0429B	1				
200257	R0205A	JA8223B	1				
200256	R0205B	JA8223A	1				
200255	R0206A	JA8224B	1				
200254	R0206B	JA8224A	1				
200253	R0207A	JA8203B	1				
200252	R0207B	JA8203A	1				
200251	R0208A	JA8214B	1				
200250	R0208B	JA8214A	1				
200245	R0209A	JA8212B	1				
200244	R0209B	JA8212A	1				
200243	R0210A	B1022A	2				
200243	R0210A	JA8213B	1				
200242	R0210B	JA8213A	1				
200242	R0210B	B1022B	2				
200249	R0211A	JA8202B	1				
200248	R0211B	JA8202A	1				
200247	R0212A	JA8201B	1				
200246	R0212B	JA8201A	1				
200241	R0213A	JA8211B	1				
200240	R0213B	JA8211A	1				
200239	R0214A	JA8210B	1				
200238	R0214B	JA8210A	1				
200237	R0215A	JA8209B	1				
200236	R0215B	JA8209A	1				

TITLE Logic Wirewrap - Applicable to Index and Sector in B Cable				WL	DOCUMENT NO.	SHEET NO. 8	REV. N
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
200235	R0216A	JAB20BR	1				
200234	R0216B	JAB20RA	1				
200233	R0217A	JAB207R	1				
200232	R0217B	JAB207A	1				
200231	R0221A	JAB206B	1				
200230	R0221B	JAB206A	1				
200229	R0222A	JAB205B	1				
200228	R0222B	JAB205A	1				
200227	R0223A	JAB204B	1				
200226	R0223B	JAB204A	1				
200202	R0224A	B0121A	2				
200202	R0224A	B0424A	1				
200208	R0224B	B0424R	1				
200208	R0224B	A0224A	2				
200216	R0225A	B0425A	1				
200216	R0225A	A0226A	2				
200212	R0225B	A0229A	2				
200212	R0225B	B0425B	1				
200214	R0226A	B0426A	1				
200214	R0226A	A0227A	2				
200210	R0226B	A0228A	2				
200210	R0226B	B0426R	1				
200204	R0227A	B0427A	1				
200204	R0227A	B0116A	2				
200201	R0227B	B0616R	1				
200201	R0227B	A0413A	2				
200206	R0228A	B0428A	1				
200206	R0228A	B0122R	2				
200205	R0228B	A0822B	1				
200203	R0229A	A0413R	1				
200207	R0229B	A0821A	1				
200209	R0230A	A0412A	1				
200213	R0230B	B0812R	1				
200211	R0231A	B0103A	1				
200211	R0231A	A0613B	2				
200215	R0231B	A0604R	1				
200220	R0232A	A0232A	2				
200220	R0232A	B0432A	1				
200218	R0232B	A0224B	2				
200218	R0232B	B0432R	1				
200219	R0233A	A0603R	1				
200223	R0233B	A0230A	2				
200223	R0233B	B0433R	1				
300025	R0234A	JAB333A	2				
300025	R0234A	JAB233A	1				
200002	R0304A	B0813B	1				
200002	R0304A	B0104A	2				
200001	R0304B	B0104R	2				
200001	R0304B	B0821B	1				
200308	R0305A	JAB345A	1				
200307	R0305B	JAB345R	1				
200306	R0306A	JAB344A	1				

TITLE Logic Wirewrap - Applicable to Index and Sector in B Cable				WL	DOCUMENT NO.	SHEET NO. 9	REV. N
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
200305	80306B	JA8343B	1				
200622	80307A	B0107A	2				
200622	80307A	B0614B	1				
200915	80307B	B0107B	2				
200915	80307B	B0911A	1				
200312	80308A	JA8316A	1				
200311	80308B	JA8316B	1				
200310	80309A	JA8315A	1				
200309	80309B	JA8315B	1				
200302	80310A	B0517B	1				
200301	80310B	B0515B	1				
200326	80311A	JA8339B	1				
200325	80311B	JA8340A	1				
200328	80312A	JA8338B	1				
200327	80312B	JA8338A	1				
200330	80313A	JA8326B	1				
200329	80313B	JA8326A	1				
200332	80314A	JA8327B	1				
200331	80314B	JA8327A	1				
200304	80315A	B0511A	1				
200303	80315B	B0510B	1				
200504	80321B	B1030A	1				
200504	80321B	B0403B	2				
100504	80323A	B0123A	1				
100101	80323B	B0123B	1				
200912	80324A	B0605B	2				
200912	80324A	B0124A	1				
100406	80324B	B0124B	2				
100406	80324B	A0426B	1				
200316	80325A	JA8319A	1				
200315	80325B	JA8319B	1				
200314	80326A	JA8317A	1				
200313	80326B	JA8317B	1				
200318	80327A	JA8320A	1				
200317	80327B	JA8320B	1				
200320	80328A	JA8334A	1				
200319	80328B	JA8333B	1				
200324	80329A	JA8337A	1				
200323	80329B	JA8336B	1				
200322	80330A	JA8335A	1				
200321	80330B	JA8335B	1				
100602	80331A	B0131A	2				
100602	80331A	A0627B	1				
100601	80331B	B0131B	2				
100601	80331B	A0626B	1				
300026	80334A	JA8234B	1				
300026	80334A	JA8334B	2				
200221	80402A	B0202A	1				
200401	80402B	B0732B	1				
200217	80403A	B0203A	1				
200217	80403A	B0531A	2				
200504	80403B	B0532A	1				

TITLE Logic Wirewrap - Applicable to Index and Sector in B Cable				WL	DOCUMENT NO.	SHEET NO. 10	REV. N
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
200504	804038	803218	2				
200403	80404A	805038	1				
200402	804048	80510A	1				
200435	80405A	JAB3238	1				
200434	804058	JAB323A	1				
200433	80406A	JAB3248	1				
200432	804068	JAB324A	1				
200431	80407A	JAB3038	1				
200430	804078	JAB303A	1				
200429	80408A	JAB3148	1				
200428	804088	JAB314A	1				
200423	80409A	JAB3128	1				
200422	804098	JAB312A	1				
200421	80410A	JAB3138	1				
200421	80410A	B1023A	2				
200420	804108	B10238	2				
200420	804108	JAB313A	1				
200427	80411A	JAB3028	1				
200426	804118	JAB302A	1				
200425	80412A	JAB3018	1				
200424	804128	JAB301A	1				
200419	80413A	JAB3118	1				
200418	804138	JAB311A	1				
200417	80414A	JAB3108	1				
200416	804148	JAB310A	1				
200415	80415A	JAB3098	1				
200414	804158	JAB309A	1				
200413	80416A	JAB3088	1				
200412	804168	JAB308A	1				
200411	80417A	JAB3078	1				
200410	804178	JAB307A	1				
200409	80421A	JAB3068	1				
200408	804218	JAB306A	1				
200407	80422A	JAB3058	1				
200406	804228	JAB305A	1				
200405	80423A	JAB3048	1				
200404	804238	JAB304A	1				
200202	80424A	B0631A	2				
200202	80424A	B0224A	1				
200206	804248	B06288	2				
200208	804248	B02248	1				
200216	80425A	B0225A	1				
200216	80425A	B06268	2				
200212	804258	B0624A	2				
200212	804258	B02258	1				
200214	80426A	B06228	2				
200214	80426A	B0226A	1				
200210	804268	B06298	2				
200210	804268	B02268	1				
200204	80427A	B0227A	1				
200204	80427A	B0633A	2				
200206	80428A	B0228A	1				

TITLE Logic Wirewrap - Applicable to Index and Sector in B Cable				WL	DOCUMENT NO.	SHEET NO. 11	REV. Y
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
200206	B0428A	B0630A	2				
200220	B0432A	B0232A	1				
200220	B0432A	B0606B	2				
200218	B0432B	B0232B	1				
200218	B0432B	B0621A	2				
200223	B0433B	B0233B	1				
200223	B0433B	B0502A	2				
300027	B0434A	JAB236A	1				
300027	B0434A	JAB336A	2				
200223	B0502A	B1009A	1				
200223	B0502A	B0433B	2				
200519	B0502B	B1025B	2				
200403	B0503B	B0404A	1				
200503	B0505A	JAB221A	1				
200502	B0505B	JAB221B	1				
200914	B0506A	B0932A	2				
201003	B0506B	B1027A	2				
201020	B0507A	B1010A	1				
200402	B0510A	B0404B	1				
200303	B0510B	B0315B	1				
200304	B0511A	B0315A	1				
100415	B0512A	A0430A	2				
100414	B0512B	A0431B	2				
100413	B0513A	A0427A	2				
100412	B0513B	A0428B	2				
100411	B0514A	A0410B	1				
200523	B0515A	B1030B	1				
200301	B0515B	B0310B	1				
200101	B0516A	B0110B	1				
200515	B0516B	B0723B	1				
200522	B0517A	B1027B	1				
200302	B0517B	B0310A	1				
200102	B0521A	B0110A	1				
201001	B0521B	B1016B	1				
200516	B0522A	B0710B	1				
201002	B0523B	B1002A	1				
200514	B0524A	JAB322B	1				
200513	B0524B	JAB322A	1				
200508	B0525A	JAB321A	1				
200507	B0525B	JAB321B	1				
200506	B0526A	JAB328A	1				
200505	B0526B	JAB328B	1				
200512	B0527A	JAB342A	1				
200511	B0527B	JAB342B	1				
200510	B0529A	JAB341B	1				
200509	B0529B	JAB341A	1				
200703	B0530A	B0709B	1				
100403	B0530B	B0707B	2				
100403	B0530B	A0407A	1				
200217	B0531A	B0625A	1				
200217	B0531A	B0403A	2				
200521	B0531B	B1010B	1				
200504	B0532A	A0221B	2				

TITLE Logic Wirewrap - Applicable to Index and Sector in B Cable				WL	DOCUMENT NO.	SHEET NO. 12	REV. N
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
200504	B0532A	B0403B	1				
101006	B0532B	B1008B	2				
101006	B0532B	A1013A	1				
200501	B0533A	B0203B	1				
200520	B0533B	B0708B	1				
300028	B0534A	JAB337B	2				
300028	B0534A	JAB237B	1				
200610	B0602A	A0711B	1				
200611	B0602B	A0725B	1				
200612	B0603A	A0712B	1				
200908	B0603B	B0914A	1				
200613	B0604A	A0713A	1				
200608	B0604B	A0727A	1				
200920	B0605A	B0910B	1				
200912	B0605B	B0903A	1				
200912	B0605B	B0324A	2				
200614	B0606A	B0917B	1				
200220	B0606B	B0432A	2				
200606	B0607A	B0827B	1				
200615	B0607B	B0922B	1				
200618	B0609A	A0717A	1				
200617	B0609B	A0715A	1				
200616	B0610A	A0713B	1				
200619	B0611B	A0716A	1				
200601	B0613A	JAB110A	1				
200604	B0613B	B0904A	1				
200607	B0614A	B0914B	1				
200622	B0614B	B0307A	1				
100404	B0615A	B0933B	1				
200620	B0616A	JAB101B	1				
200201	B0616B	B0712B	2				
200201	B0616B	B0227B	1				
200609	B0617B	A0926B	1				
200218	B0621A	B0432B	2				
200218	B0621A	B0832A	1				
200214	B0622B	B0426A	2				
200214	B0622B	B0826B	1				
200602	B0623B	JAB111A	1				
200212	B0624A	B0425B	2				
200212	B0624A	B0826A	1				
200603	B0624B	JAB112A	1				
200217	B0625A	B0833B	2				
200217	B0625A	B0531A	1				
200916	B0625B	B0915B	1				
200924	B0626A	B0117A	1				
200924	B0626A	B0817A	2				
200216	B0626B	B0425A	2				
200216	B0626B	B0811B	1				
200208	B0628B	B0823B	1				
200208	B0628B	B0424B	2				
200210	B0629B	B0426B	2				
200210	B0629B	B0822A	1				

TITLE Logic Wirewrap - Applicable to Index and Sector in B Cable				WL	DOCUMENT NO.	SHEET NO. 13	REV. N
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
200206	B0630A	B0428A	2				
200206	B0630A	B0823A	1				
200202	B0631A	B0424A	2				
200202	B0631A	B0832B	1				
200912	B0632A	B0124A	2				
200605	B0632B	B0910A	1				
200204	B0633A	B0825A	1				
200204	B0633A	B0427A	2				
200621	B0633B	A0217A	1				
300029	B0634A	JA8239A	1				
300029	B0634A	JA8339A	2				
100403	B0707B	B0530B	2				
100403	B0707B	A0528B	1				
200520	B0708B	B0533B	1				
100107	B0709A	A0130B	1				
200703	B0709B	B0530A	1				
200516	B0710B	B0522A	1				
200201	B0712B	B0616B	2				
200515	B0723B	B0516B	1				
200211	B0726B	B0103A	2				
200701	B0729A	JA8108B	1				
200702	B0729B	JA8109B	1				
200401	B0732B	B0402B	1				
300030	B0734A	JA8340B	2				
300030	B0734A	JA8240B	1				
200812	B0801A	B0811A	1				
100307	B0804A	A0311B	1				
200921	B0804B	B0921B	1				
200921	B0804B	A1017B	2				
200813	B0805A	B0814A	1				
100306	B0805B	A0332A	1				
200807	B0806A	B0911B	1				
200808	B0806B	B0924A	1				
200805	B0807A	B0932B	1				
200810	B0807B	B0925B	1				
100802	B0810A	A0809B	1				
200804	B0810B	A0814B	1				
200812	B0811A	B0801A	1				
200216	B0811B	B0626B	1				
200926	B0812A	A0327B	2				
200926	B0812A	B0913B	1				
200213	B0812B	B0927A	2				
200213	B0812B	B0230B	1				
200814	B0813A	B0815B	2				
200802	B0813B	B0304A	1				
200813	B0814A	B0805A	1				
200813	B0814A	B0814B	2				
200813	B0814B	B0825B	1				
200813	B0814B	B0814A	2				
100104	B0815A	A0126B	1				
200814	B0815B	B0813A	2				
200814	B0815B	B0824B	1				

TITLE Logic Wirewrap - Applicable to Index and Sector in B Cable				WL	DOCUMENT NO.	SHEET NO. 14	REV. N
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
100A01	B0A16A	A0A0RA	1				
200A06	B0A16B	B0902A	1				
200A24	B0A17A	B0626A	2				
200A24	B0A17A	B0906B	1				
200A19	B0A17B	A0425B	2				
200A19	B0A17B	B0907B	1				
200A09	B0A21A	B0917A	1				
200A01	B0A21B	B0304B	1				
200210	B0A22A	B0629B	1				
100305	B0A22B	A0333A	2				
200206	B0A23A	B0630A	1				
200208	B0A23B	B0628B	1				
200A14	B0A24A	B0824B	2				
200A14	B0A24A	B0834A	1				
200A14	B0A24B	B0A15B	1				
200A14	B0A24B	B0824A	2				
200204	B0A25A	B0633A	1				
200A13	B0A25B	B0A14B	1				
200A13	B0A25B	B0829A	2				
200212	B0A26A	B0624A	1				
200214	B0A26B	B0622B	1				
200A03	B0A27A	B0933A	1				
200A06	B0A27B	B0607A	1				
200A06	B0A27B	B0902B	2				
100A05	B0A28B	A0823A	1				
200A13	B0A29A	B0825A	2				
200A13	B0A29A	B0829B	1				
200A13	B0A29B	B0829A	1				
200A13	B0A29B	B0830A	2				
200A13	B0A30A	B0829B	2				
100105	B0A31A	A0113B	1				
200218	B0A32A	B0621A	1				
200202	B0A32B	B0631A	1				
200A11	B0A33A	B0929A	1				
200217	B0A33B	B1003A	1				
200217	B0A33B	B0625A	2				
200A14	B0A34A	JA8243A	2				
200A14	B0A34A	B0824A	1				
200A06	B0902A	B0A16B	1				
200A06	B0902B	B0827B	2				
200A06	B0902B	B0905B	1				
200A12	B0903A	B0605B	1				
200A12	B0903A	A0832A	2				
200A04	B0903B	A0410A	1				
200A04	B0904A	B0613B	1				
200A03	B0904B	A0A16A	1				
100A07	B0905A	A0A12B	1				
200A06	B0905B	B0902B	1				
200A06	B0906A	A0823B	1				
200A24	B0906B	B0A17A	1				
200A24	B0906B	A0A10B	2				
200A02	B0907A	A0923B	1				

TITLE Logic Wirewrap - Applicable to Index and Sector in B Cable				WL	DOCUMENT NO.	SHEET NO. 15	REV. N
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
200919	R0907B	B0817B	1				
200901	R0908A	A0922B	1				
200907	R0909A	B0916A	2				
200605	R0910A	B0632B	1				
200920	R0910B	B0605A	1				
200915	B0911A	B0307B	1				
200807	B0911B	B0806A	1				
101004	R0912A	A1014B	1				
200923	B0912B	A0708A	1				
200911	B0913A	A0710A	1				
200926	B0913B	A0925B	2				
200926	B0913B	B0812A	1				
200908	B0914A	B0603B	1				
200908	B0914A	A0812A	2				
200607	B0914B	B0614A	1				
100901	B0915A	A0924B	2				
200916	B0915B	B0625B	1				
200907	B0916A	B0909A	2				
200907	B0916A	A0717B	1				
200905	B0916B	A0722A	1				
200809	B0917A	B0821A	1				
200614	B0917B	B0606A	1				
200921	B0921B	A0916B	2				
200921	B0921B	B0804B	1				
200910	B0922A	A0813A	1				
200615	B0922B	B0607B	1				
200917	B0923A	B0934A	1				
101003	B0923B	A1017A	1				
200808	B0924A	B0806B	1				
200927	B0924B	JA8004A	1				
200922	B0925A	A0915B	1				
200810	B0925B	B0807B	1				
200925	B0926A	A0825B	1				
101001	B0926B	A1022A	1				
200213	B0927A	B0812B	2				
100302	B0927B	A0308B	1				
100301	B0928B	A0307B	1				
200811	B0929A	B0833A	1				
200922	B0929B	A0707B	1				
200913	B0930A	A0813B	1				
200909	B0930B	A0927B	1				
200918	B0931A	A0702A	1				
100402	B0931B	A0414A	1				
200914	B0932A	B0506A	2				
200914	B0932A	B1009B	1				
200805	B0932B	B0807A	1				
200803	B0933A	B0827A	1				
100404	B0933B	B0615A	1				
100404	B0933B	A0707A	2				
200917	B0934A	B0923A	1				
200917	B0934A	JA8343A	2				
201002	B1002A	B0523B	1				

TITLE Logic Wirewrap - Applicable to Index and Sector in B Cable				WL	DOCUMENT NO.	SHEET NO. 16	REV. Y
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
200217	B1003A	B0A33B	1				
201005	R1007A	JA8222B	1				
201006	R1007B	JA8222A	1				
201004	R1008A	A0A11B	1				
101006	R1008B	B0532B	2				
200223	R1009A	B0502A	1				
200914	B1009B	B0932A	1				
201020	B1010A	B0507A	1				
200521	R1010B	B0531B	1				
100411	R1015B	A0410B	2				
100403	B1016A	A1015B	1				
201001	R1016B	B0521B	1				
200243	R1022A	B0210A	2				
200242	B1022B	B0210B	2				
200421	R1023A	B0410A	2				
200420	B1023B	B0410B	2				
200519	R1025B	B0502B	2				
200501	R1026A	A0217B	2				
201003	R1027A	B0506B	2				
200522	B1027B	B0517A	1				
201008	B1028A	JA8242A	1				
201007	R1028B	JA8242B	1				
201010	R1029A	JA8241B	1				
201009	R1029B	JA8241A	1				
200504	R1030A	B0321B	1				
200523	B1030B	B0515A	1				
201012	B1031A	JA8228A	1				
201011	B1031B	JA8228B	1				
300031	R1034A	JA8244B	1				
300031	R1034A	JA8344B	2				
100404	JA8001A	A1012A	1				
100404	JA8001A	A0411B	2				
100410	JA8002B	A0409A	1				
101020	JA8003A	A0133B	1				
101017	JA8003B	A1028B	1				
200927	JA8004A	A1030B	2				
200927	JA8004A	B0924B	1				
101016	JA8004B	A1029B	1				
100408	JA8005A	A1026B	1				
101013	JA8005B	A1028A	1				
101015	JA8006A	A1026A	1				
101014	JA8006B	A1029A	1				
100416	JA8007A	A0101A	1				
100416	JA8007B	A0101A	2				
300016	JA8008A	JA8102B	1				
300017	JA8008B	JA8112B	1				
100409	JA8009B	A1012B	1				
101018	JA8010A	A1027A	1				
101019	JA8010B	A1034A	1				
100412	JA8011A	A0428B	1				
100414	JA8011B	A0431B	1				
100413	JA8012A	A0427A	1				
100405	JA8013A	A0412B	1				

TITLE Logic Wirewrap - Applicable to Index and Sector in B Cable				WL	DOCUMENT NO.	SHEET NO. 17	REV. N
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
100415	JA8014A	A0430A	1				
100417	JA8014B	A0134B	1				
300013	JA8101A	A0601A	1				
200620	JA8101B	B0616A	1				
200105	JA8102A	B0132A	1				
300016	JA8102B	JA8008A	1				
200106	JA8103A	B0133B	1				
300019	JA8103B	A0601B	1				
200107	JA8104A	B0132B	1				
100803	JA8104B	A0825A	1				
300006	JA8105A	A1001A	1				
300004	JA8105B	A0521B	1				
300005	JA8106A	A0522B	1				
300002	JA8106B	A0508B	1				
300015	JA8107A	A0801A	1				
300003	JA8107B	A0507B	1				
300001	JA8108A	A0414B	1				
200701	JA8108B	B0729A	1				
300007	JA8109A	A0409B	1				
200702	JA8109B	B0729B	1				
200601	JA8110A	B0613A	1				
200201	JA8110B	A0413A	1				
200602	JA8111A	B0623B	1				
300020	JA8111B	A0634B	1				
200603	JA8112A	B0624B	1				
300017	JA8112B	JA8008B	1				
101005	JA8113A	A1002A	1				
300021	JA8113B	A0633B	1				
300014	JA8114A	A0701A	1				
300018	JA8114B	A1032B	1				
300018	JA8114B	A0932B	2				
200246	JA8201A	B0212H	1				
200247	JA8201B	B0212A	1				
200248	JA8202A	B0211B	1				
200249	JA8202B	B0211A	1				
200252	JA8203A	B0207B	1				
200253	JA8203B	B0207A	1				
200226	JA8204A	B0223B	1				
200227	JA8204B	B0223A	1				
200228	JA8205A	B0222B	1				
200229	JA8205B	B0222A	1				
200230	JA8206A	B0221B	1				
200231	JA8206B	B0221A	1				
200232	JA8207A	B0217B	1				
200233	JA8207B	B0217A	1				
200234	JA8208A	B0216B	1				
200235	JA8208B	B0216A	1				
200236	JA8209A	B0215B	1				
200237	JA8209B	B0215A	1				
200238	JA8210A	B0214B	1				
200239	JA8210B	B0214A	1				
200240	JA8211A	B0213B	1				

TITLE Logic Wirewrap - Applicable to Index and Sector in B Cable				WL	DOCUMENT NO.	SHEET NO. 18	REV. N
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
200241	JA82118	80213A	1				
200244	JA8212A	80209A	1				
200245	JA82128	80209A	1				
200242	JA8213A	802108	1				
200243	JA82138	80210A	1				
200250	JA8214A	80208A	1				
200251	JA82148	80208A	1				
200116	JA8215A	80109A	1				
200115	JA82158	80109A	1				
200118	JA8216A	80108A	1				
200117	JA82168	80108A	1				
200120	JA8217A	80126A	1				
200119	JA82178	80126A	1				
200122	JA8219A	80125A	1				
200121	JA82198	80125A	1				
200124	JA8220A	80127A	1				
200123	JA82208	80127A	1				
200503	JA8221A	80505A	1				
200502	JA82218	80505A	1				
201006	JA8222A	81007A	1				
201005	JA82228	81007A	1				
200256	JA8227A	80205A	1				
200257	JA82238	80205A	1				
200254	JA8224A	80206A	1				
200255	JA82248	80206A	1				
200135	JA8226A	80113B	1				
200136	JA82268	80113A	1				
200137	JA8227A	80114A	1				
200138	JA82278	80114A	1				
201012	JA8228A	81031A	1				
201011	JA82288	81031B	1				
101008	JA8229A	A1003B	1				
101009	JA82298	A1003A	1				
101007	JA8231A	A1004B	1				
300025	JA8233A	80234A	1				
200125	JA82338	80128A	1				
200126	JA8234A	80128A	1				
300026	JA82348	80334A	1				
200128	JA8235A	80130A	1				
200127	JA82358	80130B	1				
300027	JA8236A	80434A	1				
200129	JA82368	80129A	1				
200130	JA8237A	80129A	1				
300028	JA82378	80534A	1				
200133	JA8238A	80112B	1				
200134	JA82388	80112A	1				
300029	JA8239A	80634A	1				
200132	JA82398	80111A	1				
200131	JA8240A	80111B	1				
300030	JA8240B	80734A	1				
201009	JA8241A	81029A	1				
201010	JA8241B	81029A	1				

TITLE Logic Wirewrap - Applicable to Index and Sector in B Cable				WL	DOCUMENT NO.	SHEET NO. 19	REV. N
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
201008	JA8242A	B1028A	1				
201007	JA8242B	B1028B	1				
200814	JA8243A	B0834A	2				
200111	JA8243B	B0106A	1				
200112	JA8244A	B0106A	1				
300031	JA8244B	B1034A	1				
200114	JA8245A	B0105A	1				
200113	JA8245B	B0105B	1				
200424	JA8301A	B0412B	1				
200425	JA8301B	B0412A	1				
200426	JA8302A	B0411B	1				
200427	JA8302B	B0411A	1				
200430	JA8303A	B0407B	1				
200431	JA8303B	B0407A	1				
200404	JA8304A	B0423B	1				
200405	JA8304B	B0423A	1				
200406	JA8305A	B0422B	1				
200407	JA8305B	B0422A	1				
200408	JA8306A	B0421B	1				
200409	JA8306B	B0421A	1				
200410	JA8307A	B0417B	1				
200411	JA8307B	B0417A	1				
200412	JA8308A	B0416B	1				
200413	JA8308B	B0416A	1				
200414	JA8309A	B0415B	1				
200415	JA8309B	B0415A	1				
200416	JA8310A	B0414B	1				
200417	JA8310B	B0414A	1				
200418	JA8311A	B0413B	1				
200419	JA8311B	B0413A	1				
200422	JA8312A	B0409B	1				
200423	JA8312B	B0409A	1				
200420	JA8313A	B0410B	1				
200421	JA8313B	B0410A	1				
200428	JA8314A	B0408B	1				
200429	JA8314B	B0408A	1				
200310	JA8315A	B0309A	1				
200309	JA8315B	B0309B	1				
200312	JA8316A	B0308A	1				
200311	JA8316B	B0308B	1				
200314	JA8317A	B0326A	1				
200313	JA8317B	B0326B	1				
200316	JA8319A	B0325A	1				
200315	JA8319B	B0325B	1				
200318	JA8320A	B0327A	1				
200317	JA8320B	B0327B	1				
200508	JA8321A	B0525A	1				
200507	JA8321B	B0525B	1				
200513	JA8322A	B0524B	1				
200514	JA8322B	B0524A	1				
200434	JA8323A	B0405B	1				
200435	JA8323B	B0405A	1				

TITLE Logic Wirewrap - Applicable to Index and Sector in B Cable				WL	DOCUMENT NO.	SHEET NO. 20	REV. N
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES			
200472	JA8324A	80406B	1				
200473	JA8324B	80406A	1				
200329	JA8326A	80313B	1				
200370	JA8326B	80313A	1				
200371	JA8327A	80314B	1				
200332	JA8327B	80314A	1				
200506	JA8328A	80526A	1				
200505	JA8328B	80526B	1				
101008	JA8329A	A1003B	2				
101009	JA8329B	A1003A	2				
101007	JA8331A	A1004B	2				
300025	JA8333A	80234A	2				
200319	JA8333B	80328B	1				
200320	JA8334A	80328A	1				
300026	JA8334B	80334A	2				
200322	JA8335A	80330A	1				
200321	JA8335B	80330B	1				
300027	JA8336A	80434A	2				
200323	JA8336B	80329B	1				
200324	JA8337A	80329A	1				
300028	JA8337B	80534A	2				
200327	JA8338A	80312B	1				
200328	JA8338B	80312A	1				
300029	JA8339A	80634A	2				
200326	JA8339B	80311A	1				
200325	JA8340A	80311B	1				
300030	JA8340B	80734A	2				
200509	JA8341A	80529B	1				
200510	JA8341B	80529A	1				
200512	JA8342A	80527A	1				
200511	JA8342B	80527B	1				
200917	JA8343A	80934A	2				
200305	JA8343B	80306B	1				
200306	JA8344A	80306A	1				
300031	JA8344B	81034A	2				
200308	JA8345A	80305A	1				
200307	JA8345B	80305B	1				

INDEX AND SECTOR IN A AND B CABLE

TITLE Logic Wirewrap - Applicable to Index and Sector in A and B Cable			WL	DOCUMENT NO. 77568147/50	SHEET NO. 1 of 21	REV. AT/AV
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	81546000 (BK5C6D) NOTES A		
	A0101A	JA8007B	2	All units except BK5C6D		
	A0101A	JA8007A	1			
	A0101B	A0121B	1			
	A0104B	A0333A	1			
	A0112B	A0221A	1			
	A0112B	A0127B	2			
	A0113B	B0831A	1			
	A0114B	A0234B	1			
	A0121B	A0101B	1			
	A0122B	A0312B	1			
	A0123B	A0623B	1			
	A0124B	A0624B	1			
	A0126B	B0815A	1			
	A0127B	A0112B	2			
	A0128B	B0123B	2			
	A0130B	B0709A	1			
	A0133B	JA8003A	1			
	A0134B	JA8014B	1			
	A0213B	A0323B	1			
	A0214B	A1012B	2			
	A0215B	A0325B	1			
	A0216A	B0104A	1			
	A0216B	A0231A	2			
	A0217A	B0433B	1			
	A0217B	B1026A	2			
	A0217B	B0121B	1			
	A0221A	A0112B	1			
	A0221B	B0532A	2			
	A0222A	B0123A	2			
	A0222A	A0532B	1			
	A0222B	A0234A	2			
	A0223A	B0117B	1			
	A0223B	B0203A	2			
	A0224A	B0224B	2			
	A0224B	B0232B	2			
	A0225A	B0122B	1			
	A0225B	B0116A	1			
	A0226A	B0225A	2			
	A0226B	B0121A	1			
	A0226B	B0116B	2			
	A0227A	B0226A	2			
	A0228A	B0226B	2			
	A0229A	B0225B	2			
	A0230A	B0233B	2			
	A0231A	A0216B	2			
	A0231A	A0234A	1			
	A0232A	B0232A	2			
	A0234A	A0222B	2			
	A0234A	A0231A	1			
	A0234B	A0114B	1			
	A0307B	B0928B	1			
				All units except BK5C6D		

KOR-0542B-2

TITLE Logic Wirewrap - Applicable to Index and Sector in A and B Cable		WL	DOCUMENT NO.	SHEET NO. 2	REV. AT/AV
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES	
	A03088	B09278	1		
	A03098	A08268	1		
	A03118	R0804A	1		
	A0312R	A01228	1		
	A03238	A0213R	1		
	A03258	A02158	1		
	A0327R	R0612A	2		
	A0332A	R0805R	1		
	A0333A	R08228	2		
	A0333A	A01048	1		
	A04038	A09038	1		
	A0407A	B05308	1		
	A0407A	A10158	2		
	A0408A	B0102R	1		
	A0409A	JA80028	1		
	A04098	JA8109A	1		
	A0410A	B0903R	1		
	A0410R	B10158	2		
	A04108	B0514A	1		
	A0411R	A0707A	1		
	A0411R	JA8001A	2		
	A0417A	B0230A	1		
	A0412R	A1C278	2		
	A04128	JA8013A	1		
	A0413A	JA81138	1		
	A0413A	R02278	2		
	A0413R	A05318	2		
	A0413R	B0229A	1		
	A0414A	R0931R	1		
	A04148	JA8108A	1		
	A04158	A10238	1		
	A04168	A1021A	1		
	A04248	A1021R	1		
	A04258	R08178	2		
	A0426A	A05758	1		
	A0426R	R03248	1		
	A0427A	B0513A	2		
	A0427A	JA8012A	1		
	A0428R	B05138	2		
	A0428R	JA8011A	1		
	A0429A	B0204A	1		
	A0429R	B0204R	1		
	A0430A	JA8014A	1		
	A0430A	B0512A	2		
	A0430R	A0811A	1		
	A0431A	R0115A	1		
	A0431R	JA8011R	1		
	A04318	B05128	2		
	A0432A	R01158	1		
	A04328	A09328	1		
	A0433A	A05238	1		
	A0503R	A06108	1		

KOR-05428-2

TITLE Logic Wirewrap - Applicable to Index and Sector in A and B Cable		WL	DOCUMENT NO.	SHEET NO. 3	REV. AT/AV
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTINATION	Z LEVEL	NOTES	
	A0504R	A0609B	1		
	A0507R	JA8107R	1		
	A0508R	JA8106B	1		
	A0521R	JA8105R	1		
	A0522R	JA8106A	1		
	A0523R	A0811B	2		
	A0523R	A0433A	1		
	A0524R	B0202R	1		
	A0525R	A0426A	1		
	A0527R	A0824A	2		
	A0528R	B0707R	1		
	A0530R	A0622B	1		
	A0531R	A0413B	2		
	A0531R	A0612R	1		
	A0532R	A0222A	1		
	A0601A	JA8101A	1		
	A0601R	JA8103R	1		
	A0603R	R0233A	1		
	A0604R	R0231R	1		
	A0609R	A0504B	1		
	A0610R	A0503B	1		
	A0612R	A0531B	1		
	A0612R	A0824B	2		
	A0613R	R0231A	2		
	A0613R	A0824A	1		
	A0622R	A0530R	1		
	A0623R	A0123B	1		
	A0624R	A0124B	1		
	A0626R	R0331B	1		
	A0627R	R0331A	1		
	A0633R	JA8113B	1		
	A0634R	JA8111R	1		
	A0701A	JA8114A	1		
	A0702A	R0931A	1		
	A0707A	B0933B	2		
	A0707A	A0411B	1		
	A0707R	B0929R	1		
	A0708A	B0912B	1		
	A0710A	B0913A	1		
	A0711R	B0602A	1		
	A0712R	B0603A	1		
	A0713A	R0604A	1		
	A0713R	R0610A	1		
	A0715A	R0609B	1		
	A0715R	A0826A	2		
	A0716A	B0611R	1		
	A0716R	A0923R	2		
	A0717A	R0609A	1		
	A0717R	B0916A	1		
	A0721R	A0922B	2		
	A0722R	R0916R	1		
	A0723R	A0809A	1		

KOR-0542B-2

TITLE Logic Wirewrap - Applicable to Index and Sector in A and B Cable		WL	DOCUMENT NO.	SHEET NO. 4	REV. AT/AV
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES	
	A0725B	B0602B	1		
	A0726B	A0928B	1		
	A0727A	B0604B	1		
	A0727B	A0808B	1		
	A0728B	A0912B	1		
	A0730B	A0802A	1		
	A0801A	JAB107A	1		
	A0802A	A0730B	1		
	A0808A	B0816A	1		
	A0808B	A0727B	1		
	A0809A	A0723B	1		
	A0809B	B0810A	1		
	A0810B	B0906B	2		
	A0811A	A0430B	1		
	A0811B	AJ523B	2		
	A0811B	B1008A	1		
	AJ812A	B0914A	2		
	A0812B	B0905A	1		
	A0813A	B0922A	1		
	A0813B	B0930A	1		
	A0814B	B0810B	1		
	A0816A	B0904B	1		
	A0821A	B0229B	1		
	A0822A	A0927A	1		
	A0822B	B0228B	1		
	A0823A	B0828B	1		
	A0823B	B0906A	1		
	A0824A	A0613B	1		
	A0824A	A0527B	2		
	A0824B	A0612B	2		
	A0825A	JAB104B	1		
	A0825B	B0926A	1		
	A0826A	A0715B	2		
	A0826A	A0906A	1		
	A0826B	A0309B	1		
	A0832A	B0903A	2		
	A0833A	A0924B	1		
	A0902A	A1002B	2		
	A0902B	A1002B	1		
	A0903A	A0904A	1		
	A0903A	A0903B	2		
	A0903B	A0903A	2		
	A0903B	A0403B	1		
	A0904A	A0903A	1		
	A0904A	A0904B	2		
	A0904B	A0904A	2		
	A0906A	A0826A	1		
	A0912B	A0728B	1		
	A0915B	B0925A	1		
	AJ916B	B0921B	2		
	A0922B	AJ721B	2		
	A0922B	B0908A	1		

KOR-0542B-2

TITLE Logic Wirewrap - Applicable to Index and Sector in A and B Cable		WL	DOCUMENT NO.	SHEET NO. 5	REV. AT/AV
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTINATION	Z LEVEL	NOTES	
	A0923B	A0716B	2	BK5C6D ONLY	
	A0923B	B0907A	1		
	A0924B	A0833A	1		
	A0924B	B0915A	2		
	A0925B	B0913B	2		
	A0926B	B0617B	1		
	A0927A	A0822A	1		
	A0927B	B0930B	1		
	A0928B	A0726B	1		
	A0931A	A0931B	2		
	A0931A	A0932A	1		
	A0931B	A0931A	2		
	A0932A	A1032B	2		
	A0932A	A0931A	1		
	A0932B	JA8114B	2		
	A0932B	A0432B	1		
	A0933A	A1033B	2		
	A0933A	B1033B	1		
	A0933B	A1033B	1		
	A1001A	JA8105A	1		
	A1002A	JA8113A	1		
	A1002B	A0902A	2		
	A1002B	A0902B	1		
	A1003A	JA8229B	1		
	A1003A	JA8329B	2		
	A1003B	JA8329A	2		
	A1003B	JA8229A	1		
	A1004B	JA8331A	2		
	A1004B	JA8231A	1		
	A1005B	A1023B	2		
	A1012A	JA8001A	1		
	A1012B	A0214B	2		
	A1012B	JA8009B	1		
	A1013A	B0532B	1		
	A1014B	B0912A	1		
	A1015B	A0407A	2		
	A1015B	B1016A	1		
	A1017A	B0923B	1		
	A1017B	B0804B	2		
	A1021A	A0416B	1		
	A1021B	A0424B	1		
	A1022A	B0926B	1		
	A1023B	A1005B	2		
	A1023B	A0415B	1		
	A1026A	JA8006A	1		
	A1026B	JA8005A	1		
	A1027A	JA8010A	1		
	A1027A	B1033A	2	BK5C6D ONLY	
	A1027B	A0412B	2		
	A1028A	JA8005B	1	All units except BK5C6D	
	A1028B	JA8003B	1		
	A1029A	JA8006B	1		
	A1029B	JA8004B	1		
	A1030B	JA8004A	2		

KOR-0542B-2

TITLE Logic Wirewrap - Applicable to Index and Sector in A and B Cable		WL	DOCUMENT NO.	SHEET NO. 6	REV. AT/AV
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES	
	A1032B	JA8114B	1	Used on BK5A7V/W & BK5C4C/D only	
	A1032B	A0932A	2		
	A1033B	A0933A	2		
	A1033B	A0933B	1		
	A1034A	JA8010B	1		
	B0102B	A0408A	1		
	B0103A	B0231A	1		
	B0103A	B0726B	2		
	B0104A	B0304A	2		
	B0104A	A0216A	1		
	B0104B	B0304B	2		
	B0105A	JA8225A	1		
	B0105B	JA8225B	1		
	B0106A	JA8218A	1		
	B0106B	JA8218B	1		
	B0107A	B0307A	2		
	B0107B	B0307B	2		
	B0108A	JA8215A	1		
	B0108B	JA8215B	1		
	B0109A	JA8215A	1		
	B0109B	JA8215B	1		
	B0110A	B0521A	1		
	B0101A	JA8230A	1		
	B0110B	B0516A	1		
	B0111A	JA8239B	1		
	B0111B	JA8240A	1		
	B0112A	JA8238B	1		
	B0112B	JA8238A	1		
	B0113A	JA8226B	1		
	B0113B	JA8226A	1		
	B0114A	JA8227B	1		
	B0114B	JA8227A	1		
	B0115A	A0431A	1		
	B0115B	A0432A	1		
	B0115A	A0225B	1		
	B0116A	B0227A	2		
	B0115B	A0226B	2		
	B0117A	B0626A	1		
	B0117B	A0223A	1		
	B0117B	B0202A	2		
	B0121A	A0226B	1		
	B0121A	B0224A	2		
	B0121B	A0217B	1		
	B0121B	B0203B	2		
	B0122A	B0134A	1		
	B0122B	A0225A	1		
	B0122B	B0228A	2		
	B0123A	A0222A	2		
	B0123A	B0323A	1		
	B0123B	A0128B	2		
	B0123B	B0323B	1		
	B0124A	B0324A	1		
	B0124A	B0632A	2		

KOR-0542B-2

TITLE Logic Wirewrap - Applicable to Index and Sector in A and B Cable		WL	DOCUMENT NO.	SHEET NO. 7	REV. AT/AV
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTINATION	Z LEVEL	NOTES	
	80124B	80324P	2	Used on BK5A7V/W & BK5C4C/D only Used on BK5A7V/W & BK5C4C/D only	
	80125A	JAB219A	1		
	80125B	JAB219B	1		
	80126A	JAB217A	1		
	80126B	JAB217B	1		
	80127A	JAB220A	1		
	80127B	JAB220B	1		
	80128A	JAB234A	1		
	80128B	JAB233B	1		
	80129A	JAB237A	1		
	80129B	JAB236B	1		
	80130A	JAB235A	1		
	80130B	JAB235B	1		
	80131A	80331A	2		
	80131B	80331B	2		
	80132A	JAB102A	1		
	80132B	JAB104A	1		
	80133A	JAB103A	1		
	80134A	80122A	1		
	80134A	JAB230A	2		
	80201A	JAB230B	1		
	80202A	80402A	1		
	80202A	80117B	2		
	80202B	A0524B	1		
	80203A	80403A	1		
	80203A	A0223B	2		
	80203B	80121B	2		
	80203B	80533A	1		
	80204A	A0429A	1		
	80204B	A0429B	1		
	80205A	JAB223B	1		
	80205B	JAB223A	1		
	80206A	JAB224A	1		
	80206B	JAB224A	1		
	80207A	JAB203B	1		
	80207B	JAB203A	1		
	80208A	JAB214B	1		
	80208B	JAB214A	1		
	80209A	JAB212B	1		
	80209B	JAB212A	1		
	80210A	81022A	2		
	80210A	JAB213B	1		
	80210B	81022B	2		
	80210B	JAB213A	1		
	80211A	JAB202B	1		
	80211B	JAB202A	1		
	80212A	JAB201B	1		
	80212B	JAB201A	1		
	80213A	JAB211B	1		
	80213B	JAB211A	1		
	80214A	JAB210B	1		
	80214B	JAB210A	1		
	80215A	JAB209B	1		
	80215B	JAB209A	1		

KOR-0542B-2

TITLE Logic Wirewrap - Applicable to Index and Sector in A and B Cable		WL	DOCUMENT NO.	SHEET NO. 8	REV. AT/AV
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES	
	80216A	JA8208B	1	Used on BK5A7V/W & BK5C4C/D only	
	80216R	JA8208A	1		
	80217A	JA8207B	1		
	80217B	JA8207A	1		
	80221A	JA8206B	1		
	80221B	JA8206A	1		
	80222A	JA8205B	1		
	80222R	JA8205A	1		
	80223A	JA8204B	1		
	80223B	JA8204A	1		
	80224A	B0121A	2		
	80224A	B0424A	1		
	80224B	A0224A	2		
	80224B	B0424B	1		
	80225A	B0425A	1		
	80225A	A0226A	2		
	80225B	B0425B	1		
	80225B	A0229A	2		
	80226A	A0227A	2		
	80226A	B0426A	1		
	80226B	B0426B	1		
	80225B	A0228A	2		
	80227A	B0427A	1		
	80227A	B0116A	2		
	80227B	B0616B	1		
	80227B	A0413A	2		
	80228A	B0122B	2		
	80228A	B0428A	1		
	80228B	A0822B	1		
	80229A	A0413B	1		
	80229B	A0821A	1		
	80230A	A0412A	1		
	80230B	B0812B	1		
	80231A	B0103A	1		
	80231A	A0613B	2		
	80231B	A0604B	1		
	80232A	B0432A	1		
	80232A	A0232A	2		
	80232B	A0224B	2		
	80232B	B0432B	1		
	80233A	A0603B	1		
	80233B	B0433B	1		
	80233B	A0230A	2		
	80234A	JA8233A	1		
	80234A	JA8333A	2		
	B0301A	JA8330A	1		
	B0304A	B0104A	2		
	B0304A	B0P13B	1		
	B0304B	B0104B	2		
	B0304B	B0B21B	1		
	B0305A	JA8325A	1		
	B0305B	JA8325B	1		
	B0306A	JA8318A	1		

KOR 0542B-2

TITLE		WL	DOCUMENT NO.	SHEET NO.	REV.
Logic Wirewrap - Applicable to Index and Sector in A and B Cable				9	AT/AV
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTINATION	Z LEVEL	NOTES	
	B0306B	JA8318B	1	Used on BK5A7V/W & BK5C4C/D only	
	B0307A	B0107A	2		
	B0307A	B0614B	1		
	B0307B	B0911A	1		
	B0307B	B0107B	2		
	B0308A	JA8316A	1		
	B0308B	JA8316B	1		
	B0309A	JA8315A	1		
	B0309B	JA8315B	1		
	B0310A	B0517B	1		
	B0310B	B0515B	1		
	B0311A	JA8339B	1		
	B0311B	JA8340A	1		
	B0312A	JA8338B	1		
	B0312B	JA8338A	1		
	B0313A	JA8326B	1		
	B0313B	JA8326A	1		
	B0314A	JA8327B	1		
	B0314B	JA8327A	1		
	B0315A	B0511A	1		
	B0315B	B0510B	1		
	B0321B	B0403B	2		
	B0321B	B1030A	1		
	B0323A	B0123A	1		
	B0323B	B0123B	1		
	B0324A	B0605B	2		
	B0324A	B0124A	1		
	B0324B	A0426B	1		
	B0324B	B0124B	2		
	B0325A	JA8319A	1		
	B0325B	JA8319B	1		
	B0326A	JA8317A	1		
	B0326B	JA8317B	1		
	B0327A	JA8320A	1		
	B0327B	JA8320B	1		
	B0328A	JA8334A	1		
	B0328B	JA8333B	1		
	B0329A	JA8337A	1		
	B0329B	JA8336B	1		
	B0330A	JA8335A	1		
	B0330B	JA8335B	1		
	B0331A	B0131A	2		
	B0331A	A0627B	1		
	B0331B	A0626B	1		
	B0331B	B0131B	2		
	B0334A	JA8234B	1		
	B0334A	JA8334B	2		
	B0401A	JA8330B	1		
	B0402A	B0202A	1		
	B0402B	B0732B	1		
	B0403A	B0531A	2		
	B0403A	B0203A	1		
	B0403B	B0321B	2		

KOR-0542B-2

TITLE Logic Wirewrap - Applicable to Indes and Sector in A and B Cable		WL	DOCUMENT NO.	SHEET NO. 10	REV. AT/AV
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES	
	804038	R0532A	1		
	80404A	R05038	1		
	80404R	R0510A	1		
	80405A	JA83238	1		
	80405R	JA8323A	1		
	80406A	JA83248	1		
	80406R	JA8324A	1		
	80407A	JA83038	1		
	80407R	JA8303A	1		
	80408A	JA83148	1		
	80408R	JA8314A	1		
	80409A	JA83128	1		
	80409R	JA8312A	1		
	80410A	R1023A	2		
	80410A	JA83138	1		
	80410R	JA8313A	1		
	80410R	R10238	2		
	80411A	JA83028	1		
	80411R	JA8302A	1		
	80412A	JA83018	1		
	80412R	JA8301A	1		
	80413A	JA83118	1		
	80413R	JA8311A	1		
	80414A	JA83108	1		
	80414R	JA8310A	1		
	80415A	JA83098	1		
	80415R	JA8309A	1		
	80416A	JA83088	1		
	80416R	JA8308A	1		
	80417A	JA83078	1		
	80417R	JA8307A	1		
	80421A	JA83068	1		
	80421R	JA8306A	1		
	80422A	JA83058	1		
	80422R	JA8305A	1		
	80423A	JA83048	1		
	80423R	JA8304A	1		
	80424A	R0631A	2		
	80424A	R0224A	1		
	80424R	R0224R	1		
	80424R	R06288	2		
	80425A	R06268	2		
	80425A	R0225A	1		
	80425R	R0624A	2		
	80425R	R0225R	1		
	80426A	R06228	2		
	80426A	R0226A	1		
	80426R	R06298	2		
	80426R	R0226R	1		
	80427A	R0633A	2		
	80427A	R0227A	1		
	80428A	R0228A	1		

KOR-0542B-2

TITLE Logic Wirewrap - Applicable to Index and Sector in A and B Cable		WL	DOCUMENT NO.	SHEET NO. 11	REV. AT/AV
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES	
	80428A	80630A	2	Used on BK5A7V/W & BK5C4C/D only	
	80432A	80606B	2		
	80432A	80232A	1		
	80432B	80621A	2		
	80432B	80232B	1		
	80433B	80502A	2		
	80433B	80233B	1		
	80434A	JAB236A	1		
	80434A	JA8336A	2		
	80501A	JA8230B	2		
	80502A	80433B	2		
	80502A	81009A	1		
	80502B	81025B	2		
	80503B	80404A	1		
	80505A	JA8221A	1		
	80505B	JA8221B	1		
	80506A	80932A	2		
	80506B	81027A	2		
	80507A	81010A	1		
	80510A	80404B	1		
	80510B	80315B	1		
	80511A	80315A	1		
	80512A	A0430A	2		
	80512B	A0431B	2		
	80513A	A0427A	2		
	80513B	A0428B	2		
	80514A	A0410B	1		
	80515A	81030B	1		
	80515B	80310B	1		
	80516A	80110B	1		
	80516B	80723B	1		
	80517A	81027B	1		
	80517B	80310A	1		
	80521A	80110A	1		
	80521B	81016B	1		
	80522A	80710B	1		
	80523B	81002A	1		
	80524A	JA8322B	1		
	80524B	JA8322A	1		
	80525A	JA8321A	1		
	80525B	JA8321B	1		
	80526A	JA8328A	1		
	80526B	JA8328B	1		
	80527A	JA8342A	1		
	80527B	JA8342B	1		
	80529A	JA8341B	1		
	80529B	JA8341A	1		
	80530A	80709B	1		
	80530B	80707B	2		
	80530B	A0407A	1		
	80531A	80625A	1		
	80531A	80403A	2		
	80531B	81010B	1		

KOR-0542B-2

TITLE		WL	DOCUMENT NO.	SHEET NO.	REV.
Logic Wirewrap - Applicable to Index and Sector in A and B Cable				13	AT/AV
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTINATION	Z LEVEL	NOTES	
				Used on BK5A7V/W & BK5C4C/D only	
	R0629B	80822A	1		
	80630A	80428A	2		
	80630A	80823A	1		
	80631A	80832B	1		
	80631A	80424A	2		
	80632A	80124A	2		
	80632B	80910A	1		
	80633A	80427A	2		
	80633A	80825A	1		
	80633B	A0217A	1		
	80634A	JA8339A	2		
	80634A	JA8239A	1		
	B0701A	JA8330B	2		
	80702A	JA8344A	1		
	80702B	JA8343B	1		
	80703A	JA8243B	1		
	80703B	JA8244A	1		
	80704A	JA8245A	1		
	80704B	JA8245B	1		
	80705A	P0707A	1		
	80705B	80706A	1		
	80706A	80813B	2		
	80706A	80705B	1		
	80706B	80727B	1		
	80707A	80705A	1		
	80707A	80821B	2		
	80707B	80530B	2		
	80707B	A0528B	1		
	80709B	80533B	1		
	80709A	A0130B	1		
	80709B	80530A	1		
	80710B	80522A	1		
	80711A	JA8345A	1		
	80711B	JA8345B	1		
	80712B	80616B	2		
	80723B	80516B	1		
	80726B	80103A	2		
	80727B	80706B	1		
	80729A	JA8108B	1		
	80729B	JA8109B	1		
	80732B	80402B	1		
	80734A	JA8340B	2		
	80734A	JA8240B	1		
	80801A	80811A	1		
	80804A	A0311B	1		
	80804B	A1017B	2		
	80804B	80921B	1		
	80805A	80814A	1		
	80805B	A0332A	1		
	80806A	80911B	1		
	80806B	80924A	1		
	80807A	80932B	1		
	80807B	80925B	1		

KOR-0542B-2

TITLE Logic Wirewrap - Applicable to Index and Sector in A and B Cable		WL	DOCUMENT NO.	SHEET NO. 14	REV. AT/AV
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES	
	80810A	A0809B	1		
	80810B	A0814B	1		
	80811A	B0801A	1		
	80811B	B0626B	1		
	80812A	B0913B	1		
	80812A	A0327B	2		
	80812B	B0927A	2		
	80812B	B0230B	1		
	80813A	B0815B	2		
	80813B	B0304A	1		
	80813B	B0706A	2		
	80814A	B0814B	2		
	80814A	B0805A	1		
	80814B	B0825B	1		
	80814B	B0814A	2		
	80815A	A0126B	1		
	80815B	B0824B	1		
	80815B	B0813A	2		
	80816A	A0808A	1		
	80816B	B0902A	1		
	80817A	B0626A	2		
	80817A	B0906B	1		
	80817B	B0907B	1		
	80817B	A0425B	2		
	80821A	B0917A	1		
	80821B	B0304B	1		
	80821B	B0707A	2		
	80822A	B0629B	1		
	80822B	A0333A	2		
	80823A	B0630A	1		
	80823B	B0628B	1		
	80824A	B0824B	2		
	80824A	B0834A	1		
	80824B	B0824A	2		
	80824B	B0815B	1		
	80825A	B0633A	1		
	80825B	B0814B	1		
	80825B	B0829A	2		
	80826A	B0624A	1		
	80826B	B0622B	1		
	80827A	B0933A	1		
	80827B	B0607A	1		
	80827B	B0902B	2		
	80828B	A0823A	1		
	80829A	B0825B	2		
	80829A	B0829B	1		
	80829B	B0829A	1		
	80829B	B0830A	2		
	80830A	B0829B	2		
	80831A	A0113B	1		
	80832A	B0621A	1		
	80832B	B0631A	1		

KOR-0542B.2

TITLE Logic Wirewrap - Applicable to Index and Sector in A and B Cable		WL	DOCUMENT NO.	SHEET NO. 15	REV. AT/AV
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTINATION	Z LEVEL	NOTES	
	80833A	80929A	1		
	80833B	80625A	2		
	80833B	81003A	1		
	80834A	JA8243A	2		
	80834A	80824A	1		
	80902A	80816B	1		
	80902B	80905B	1		
	80902B	80827B	2		
	80903A	80605B	1		
	80903A	A0832A	2		
	80903B	A0410A	1		
	80904A	80613B	1		
	80904B	A0816A	1		
	80905A	A0812B	1		
	80905B	80902B	1		
	80906A	A0823B	1		
	80906B	A0810B	2		
	80906B	80817A	1		
	80907A	A0923B	1		
	80907B	80817B	1		
	80908A	A0922B	1		
	80909A	80916A	2		
	80910A	80632B	1		
	80910B	80605A	1		
	80911A	80307B	1		
	80911B	80806A	1		
	80912A	A1014B	1		
	80912B	A0708A	1		
	80913A	A0710A	1		
	80913B	80812A	1		
	80913B	A0925B	2		
	80914A	A0812A	2		
	80914A	80603B	1		
	80914B	80614A	1		
	80915A	A0924B	2		
	80915B	80625B	1		
	80916A	A0717B	1		
	80916A	80909A	2		
	80916B	A0722B	1		
	80917A	80821A	1		
	80917B	80606A	1		
	80921B	A0916B	2		
	80921B	80804B	1		
	80922A	A0813A	1		
	80922B	80607B	1		
	80923A	80934A	1		
	80923B	A1017A	1		
	80924A	80806B	1		
	80924B	JA8004A	1		
	80925A	A0915B	1		
	80925B	80807B	1		
	80926A	A0825B	1		

KOR-0542B-2

TITLE Logic Wirewrap - Applicable to Index and Sector in A and B Cable		WL	DOCUMENT NO.	SHEET NO. 16	REV. AT/AV
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTI- NATION	Z LEVEL	NOTES	
	B0926B	A1022A	1		
	B0927A	B0812B	2		
	B0927B	A0308B	1		
	B0928B	A0307B	1		
	B0929A	B0833A	1		
	B0929B	A0707B	1		
	B0930A	A0813B	1		
	B0930B	A0927B	1		
	B0931A	A0702A	1		
	B0931B	A0414A	1		
	B0932A	B1009B	1		
	B0932A	B0506A	2		
	B0932B	B0807A	1		
	B0933A	B0827A	1		
	B0933B	A0707A	2		
	B0933B	B0615A	1		
	B0934A	JAB343A	2		
	B0934A	B0923A	1		
	B1002A	B0523B	1		
	B1003A	B0833B	1		
	B1007A	JA8222B	1		
	B1007P	JA8222A	1		
	B1008A	A0811B	1		
	B1008B	B0532B	2		
	B1009A	B0502A	1		
	B1009B	B0932A	1		
	B1010A	B0507A	1		
	B1010B	B0531B	1		
	B1015B	A0413B	2		
	B1016A	A1015B	1		
	B1016B	B0521B	1		
	B1017B	JA8003A	1	BK5C6D ONLY	
	B1022A	B0210A	2		
	B1022B	B0210B	2		
	B1023A	B0410A	2		
	B1023B	B0410B	2		
	B1024A	JA8001B	1	BK5C6D ONLY	
	B1025B	B0502B	2		
	B1026A	A0217B	2		
	B1026B	JA8003B	1	BK5C6D ONLY	
	B1027A	B0506B	2		
	B1027B	B0517A	1		
	B1028A	JA8242A	1		
	B1028B	JA8242B	1		
	B1029A	JA8241B	1		
	B1029B	JA8241A	1		
	B1030A	B0321B	1		
	B1030B	B0515A	1		
	B1031A	JA8228A	1		
	B1031B	JA8228B	1		
	B1033A	A1027A	2	BK5C6D ONLY	
	B1033B	A0933A	1	BK5C6D ONLY	
	B1034A	JA8244B	1		
	B1034A	JA8344B	2		
	JA8001A	A0411B	2		
	JA8001A	A1012A	1		
	JA8001B	B1024A	1	BK5C6D ONLY	
	JA8002B	A0409A	1		

KOR-05428.2

TITLE		WL		DOCUMENT NO.	SHEET NO.	REV.
Logic Wirewrap - Applicable to Index and Sector in A and B Cable					17	AT/AV
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTINATION	Z LEVEL	NOTES		
	JA8003A	A0133B	1	All units except BK5C6D BK5C6D ONLY		
	JA8003A	B1017B	1			
	JA8003B	A1028B	1	All units except BK5C6D BK5C6D ONLY		
	JA8003B	B1026B	1			
	JA8004A	A1030R	2			
	JA8004A	B0924B	1			
	JA8004B	A1029B	1			
	JA8005A	A1026B	1			
	JA8005B	A1028A	1			
	JA8006A	A1026A	1			
	JA8006B	A1029A	1			
	JA8007A	A0101A	1			
	JA8007B	A0101A	2			
	JA8008A	JA8102B	1			
	JA8008B	JA8112B	1			
	JA8009B	A1012B	1			
	JA8010A	A1027A	1			
	JA8010B	A1034A	1			
	JA8011A	A0428B	1			
	JA8011B	A0431B	1			
	JA8012A	A0427A	1			
	JA8013A	A0412B	1			
	JA8014A	A0430A	1			
	JA8014B	A0134B	1			
	JA8101A	A0601A	1			
	JA8101B	B0616A	1			
	JA8102A	B0132A	1			
	JA8102B	JA8008A	1			
	JA8103A	B0133B	1			
	JA8103B	A0601B	1			
	JA8104A	B0132B	1			
	JA8104B	A0825A	1			
	JA8105A	A1001A	1			
	JA8105B	A0521B	1			
	JA8106A	A0522B	1			
	JA8106B	A0508B	1			
	JA8107A	A0801A	1			
	JA8107B	A0507B	1			
	JA8108A	A0414B	1			
	JA8108B	B0729A	1			
	JA8109A	A0409B	1			
	JA8109B	B0729B	1			
	JA8110A	B0613A	1			
	JA8110B	A0413A	1			
	JA8111A	B0623B	1			
	JA8111B	A0634B	1			
	JA8112A	B0624B	1			
	JA8112B	JA8008B	1			
	JA8113A	A1002A	1			
	JA8113B	A0633B	1			
	JA8114A	A0701A	1			
	JA8114B	A0932B	2			
	JA8114B	A1032B	1			
	JA8201A	B0212B	1			

KOR-0542B-2

TITLE Logic Wirewrap - Applicable to Index and Sector in A and B Cable		WL	DOCUMENT NO.	SHEET NO. 18	REV. AT/AV
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTINATION	Z LEVEL	NOTES	
	JA82018	80212A	1		
	JA8202A	802118	1		
	JA82028	80211A	1		
	JA8203A	802078	1		
	JA82038	80207A	1		
	JA8204A	802238	1		
	JA8204R	80223A	1		
	JA8205A	80222R	1		
	JA82058	80222A	1		
	JA8206A	802218	1		
	JA82068	80221A	1		
	JA8207A	802178	1		
	JA82078	80217A	1		
	JA8208A	802168	1		
	JA8208R	80216A	1		
	JA8209A	802158	1		
	JA82098	80215A	1		
	JA8210A	802148	1		
	JA8210R	80214A	1		
	JA8211A	802138	1		
	JA8211R	80213A	1		
	JA8212A	802098	1		
	JA82128	80209A	1		
	JA8213A	802108	1		
	JA82138	80210A	1		
	JA8214A	802088	1		
	JA82148	80208A	1		
	JA8215A	80109A	1		
	JA82158	801098	1		
	JA8216A	80108A	1		
	JA82168	801088	1		
	JA8217A	80126A	1		
	JA82178	801268	1		
	JA8218A	80106A	1		
	JA8218R	80106R	1		
	JA8219A	80125A	1		
	JA8219R	801258	1		
	JA8220A	80127A	1		
	JA8220R	80127R	1		
	JA8221A	80505A	1		
	JA82218	80505R	1		
	JA8222A	81007R	1		
	JA82228	81007A	1		
	JA8223A	80205R	1		
	JA8223R	80205A	1		
	JA8224A	802068	1		
	JA82248	80206A	1		
	JA8225A	80105A	1		
	JA82258	80105R	1		
	JA8226A	801138	1		
	JA82268	80113A	1		
	JA8227A	801148	1		

KOR-05428-2

TITLE Logic Wirewrap - Applicable to Index and Sector in A and B Cable			WL	DOCUMENT NO.	SHEET NO. 19	REV. AT/AV
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTINATION	Z LEVEL	NOTES		
JA8227B	80114A	1		Used on BK5A7V/W & BK5C4C/D only		
JA8228A	81031A	1				
JA8228R	81031B	1				
JA8229A	81003B	1				
JA8229R	81003A	1		Used on BK5A7V/W & BK5C4C/D only		
JA8230A	80101A	1				
JA8230A	80134A	2		Used on BK5A7V/W & BK5C4C/D only		
JA8230B	80201A	1				
JA8230B	80501A	2		Used on BK5A7V/W & BK5C4C/D only		
JA8231A	81004B	1				
JA8233A	80234A	1				
JA8233B	80128B	1				
JA8234A	80128A	1				
JA8234B	80334A	1				
JA8235A	80130A	1				
JA8235B	80130B	1				
JA8236A	80434A	1				
JA8236B	80129B	1				
JA8237A	80129A	1				
JA8237R	80534A	1				
JA8238A	80112B	1				
JA8238B	80112A	1				
JA8239A	80634A	1				
JA8239B	80111A	1				
JA8240A	80111B	1				
JA8240B	80734A	1				
JA8241A	81029B	1				
JA8241B	81029A	1				
JA8242A	81028A	1				
JA8242B	81028B	1				
JA8243A	80834A	2				
JA8243B	80703A	1				
JA8244A	80703B	1				
JA8244B	81034A	1				
JA8245A	80704A	1				
JA8245B	80704B	1				
JA8301A	80412B	1				
JA8301B	80412A	1				
JA8302A	80411B	1				
JA8302B	80411A	1				
JA8303A	80407B	1				
JA8303B	80407A	1				
JA8304A	80423B	1				
JA8304B	80423A	1				
JA8305A	80422B	1				
JA8305B	80422A	1				
JA8306A	80421B	1				
JA8306B	80421A	1				
JA8307A	80417B	1				
JA8307B	80417A	1				
JA8308A	80416B	1				
JA8308B	80416A	1				
JA8309A	80415B	1				
JA8309B	80415A	1				
JA8310A	80414B	1				
JA8310B	80414A	1				

KOR-0542B-2

TITLE Logic Wirewrap - Applicable to Index and Sector in A and B Cable		WL	DOCUMENT NO.	SHEET NO. 20	REV. AT/AV
SIGNAL NAME OR NUMBER IDENTIFICATION	ORIGIN	DESTINATION	Z LEVEL	NOTES	
	JA8311A	B0413R	1		
	JA8311B	B0413A	1		
	JA8312A	B0409B	1		
	JA8312B	B0409A	1		
	JA8313A	B0410B	1		
	JA8313B	B0410A	1		
	JA8314A	B0408R	1		
	JA8314B	B0408A	1		
	JA8315A	B0309A	1		
	JA8315B	B0309B	1		
	JA8316A	B0308A	1		
	JA8316B	B0308B	1		
	JA8317A	B0326A	1		
	JA8317B	B0326B	1		
	JA8318A	B0306A	1		
	JA8318B	B0306B	1		
	JA8319A	B0325A	1		
	JA8319B	B0325B	1		
	JA8320A	B0327A	1		
	JA8320B	B0327B	1		
	JA8321A	B0525A	1		
	JA8321B	B0525B	1		
	JA8322A	B0524B	1		
	JA8322B	B0524A	1		
	JA8323A	B0405B	1		
	JA8323B	B0405A	1		
	JA8324A	B0406B	1		
	JA8324B	B0406A	1		
	JA8325A	B0305A	1		
	JA8325B	B0305B	1		
	JA8326A	B0313B	1		
	JA8326B	B0313A	1		
	JA8327A	B0314B	1		
	JA8327B	B0314A	1		
	JA8328A	B0526A	1		
	JA8328B	B0526B	1		
	JA8329A	A1003B	2		
	JA8329B	A1003A	2		
	JA8330A	B0301A	1	Used on BK5A7V/W & BK5C4C/D only	
	JA8330B	B0401A	1	Used on BK5A7V/W & BK5C4C/D only	
	JA8330A	B0601A	2	Used on BK5A7V/W & BK5C4C/D only	
	JA8330B	B0701A	2	Used on BK5A7V/W & BK5C4C/D only	
	JA8331A	A1004B	2		
	JA8333A	B0234A	2		
	JA8333B	B0328B	1		
	JA8334A	B0328A	1		
	JA8334B	B0334A	2		
	JA8335A	B0330A	1		
	JA8335B	B0330B	1		
	JA8336A	B0434A	2		
	JA8336B	B0329B	1		
	JA8337A	B0329A	1		
	JA8337B	B0534A	2		
	JA8338A	B0312B	1		
	JA8338B	B0312A	1		
	JA8339A	B0634A	2		

KOR-0542B-2

KOR-0542B-2

COMMENT SHEET

Manual Title: _____

Publication No: _____

Revision: _____

Name: _____

Company: _____

Street Address: _____

City: _____ **State:** _____ **Zip Code:** _____

This form is not intended to be used as an order blank. Seagate welcomes your evaluation of this manual. Please indicate any errors, suggested additions or deletions, or general comments below (please include page number references)

☐ *Please reply*

☐ *No reply necessary*

Cut along line

Printed in U.S.A.

KDR 0502F

No postage stamp necessary if mailed in U.S.A.

Fold on dotted lines and tape. Postal regulations prohibit the use of staples.

FOLD

FOLD

FIRST CLASS
PERMIT NO. 8241

MINNEAPOLIS, MINN.

BUSINESS REPLY MAIL

NO POSTAGE STAMP NECESSARY IF MAILED IN U. S. A.

POSTAGE WILL BE PAID BY

SEAGATE TECHNOLOGY, INC.
TECHNICAL PUBLICATIONS DEPARTMENT
12701 WHITEWATER DRIVE
MINNETONKA, MN. 55343

CUT ALONG LINE

FOLD

FOLD